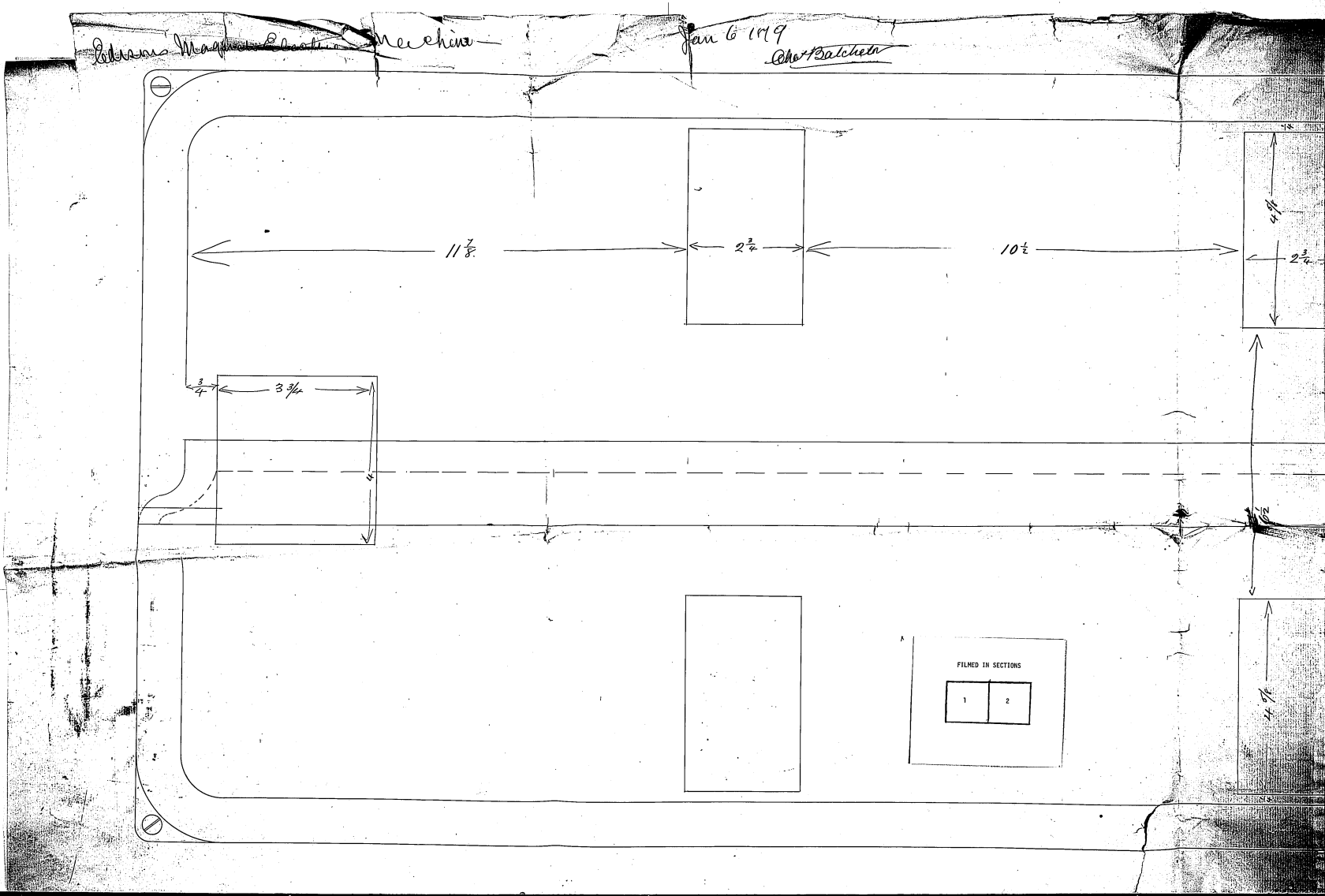
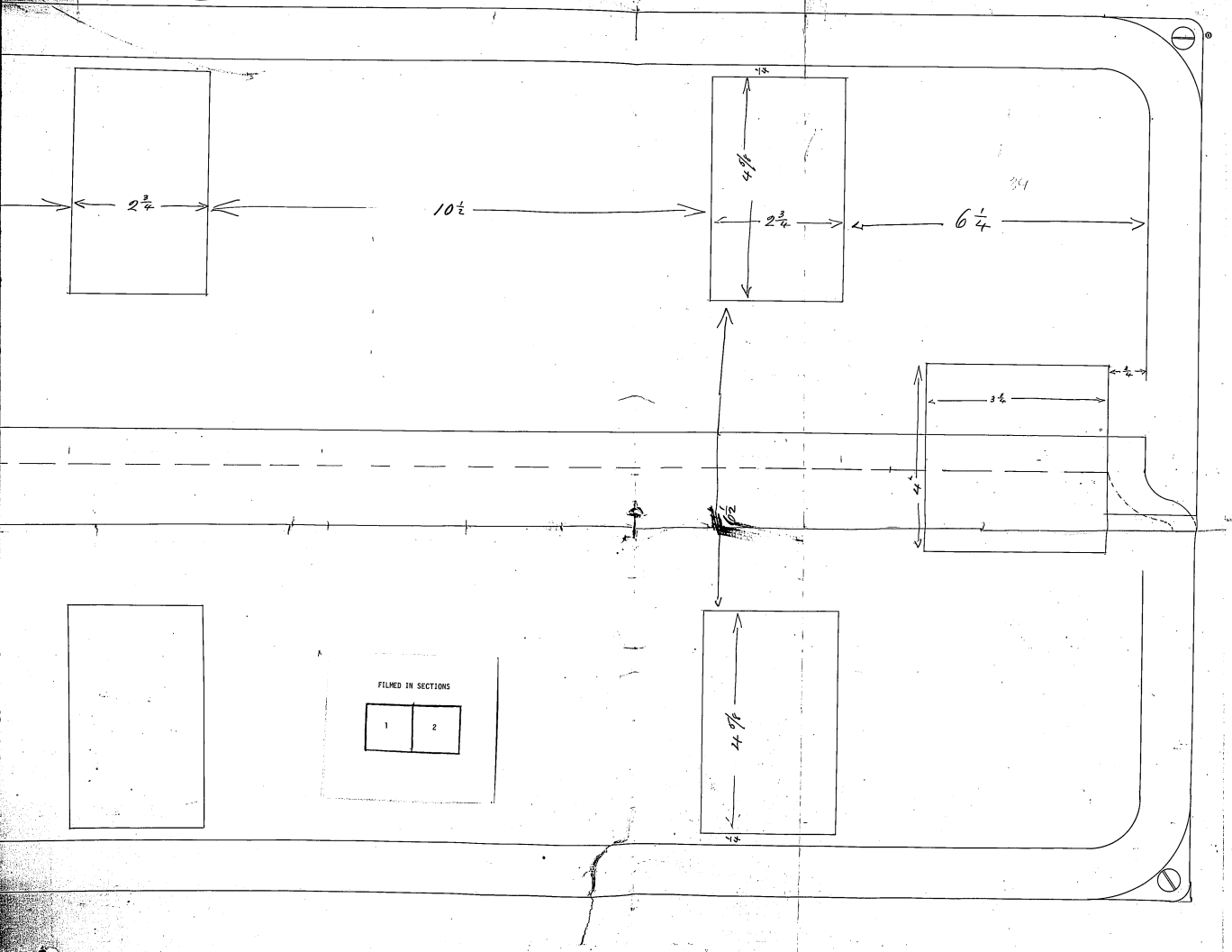
MENLO PARK MACHINE SHOP DRAWINGS, 1879-1880

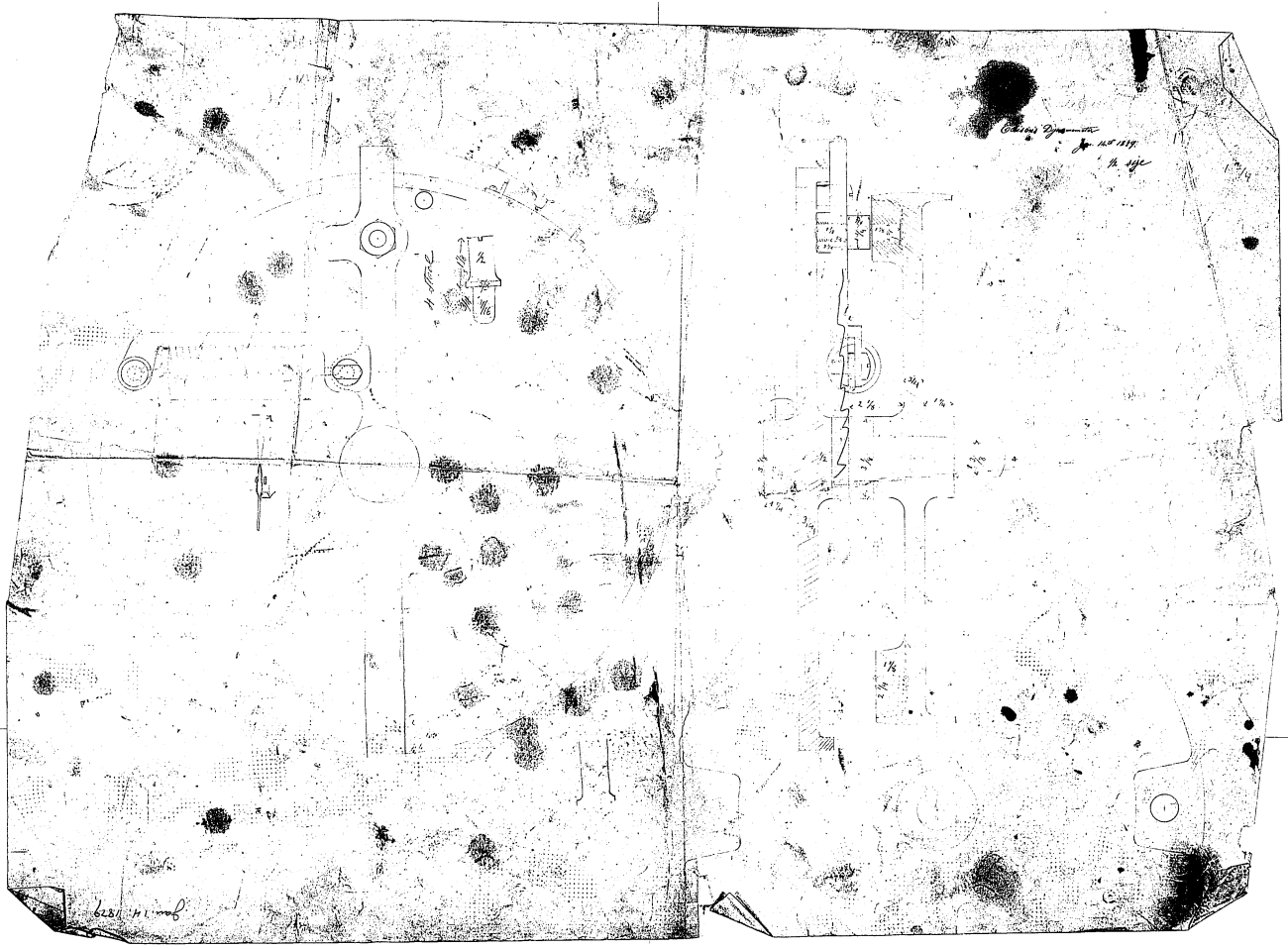
(Reduction Ratio = 18:1)

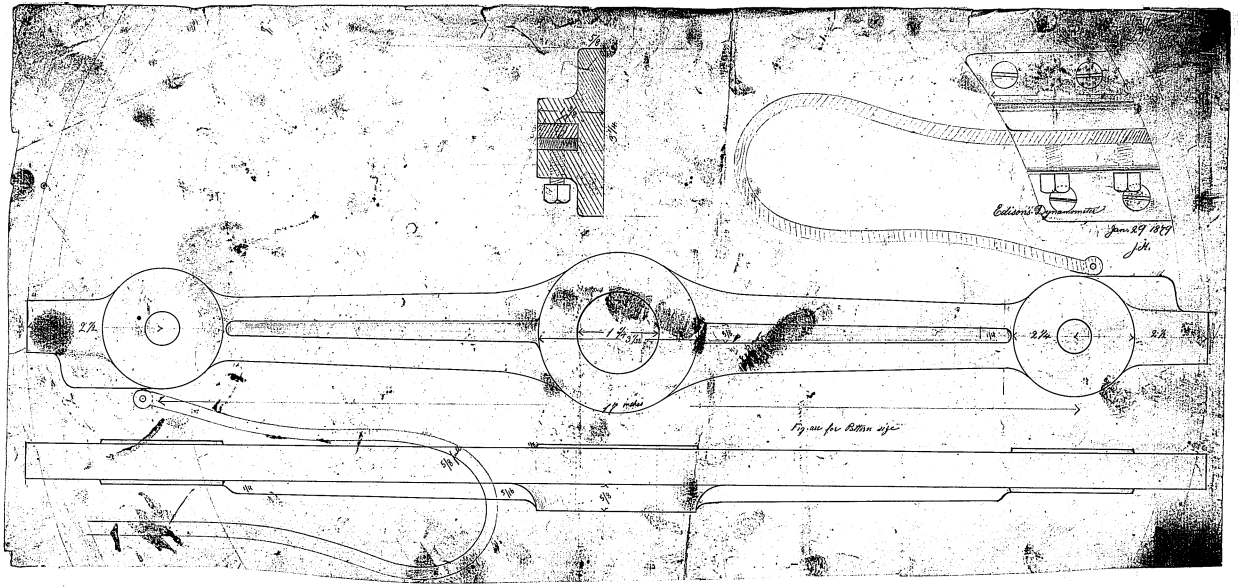

11 7/8
2 3/4
10 1/2
4 1/4
2 3/4
3/4
3 3/4
4
1/2
FILMED IN SECTIONS
1
2

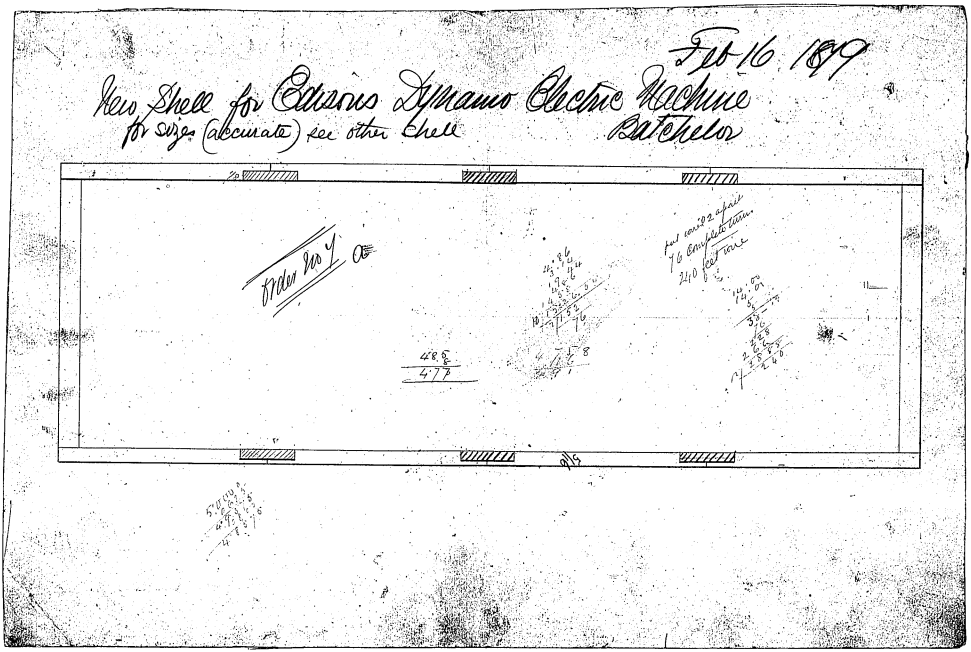
Jan 6 1949

Chas Batchelder






Edison's Dynamo etc
Jan 29 1879
JH.
2 ft.
2 ft.
2 ft.
2 ft.
12 rods
Figure for Bottom wire


Feb 16 1889
New Shell for Edisons Dynamo Electric Machine
for Sizes (alcumate) see other Shell
Batchelor
Order No 1 Oc
for comparison
To Compensation
240 feet wire

Dial outside $5\frac{9}{16}$ = 5·5625

Thimble Dia. of Shell = $5\frac{9}{16}$ = 5·5625

No of Divisions 106

5·562
5·416
3·372
5·562
2·248
5·562
16·686

106) 17·3 (3·5) 7 (·164
106
67
636
410
424

Edition 69

1060

Thickness of Plane of Cone = 1/36 Thickness of Centre

Depth of Groove

·028
·068
·040
·036

136
020

36
136

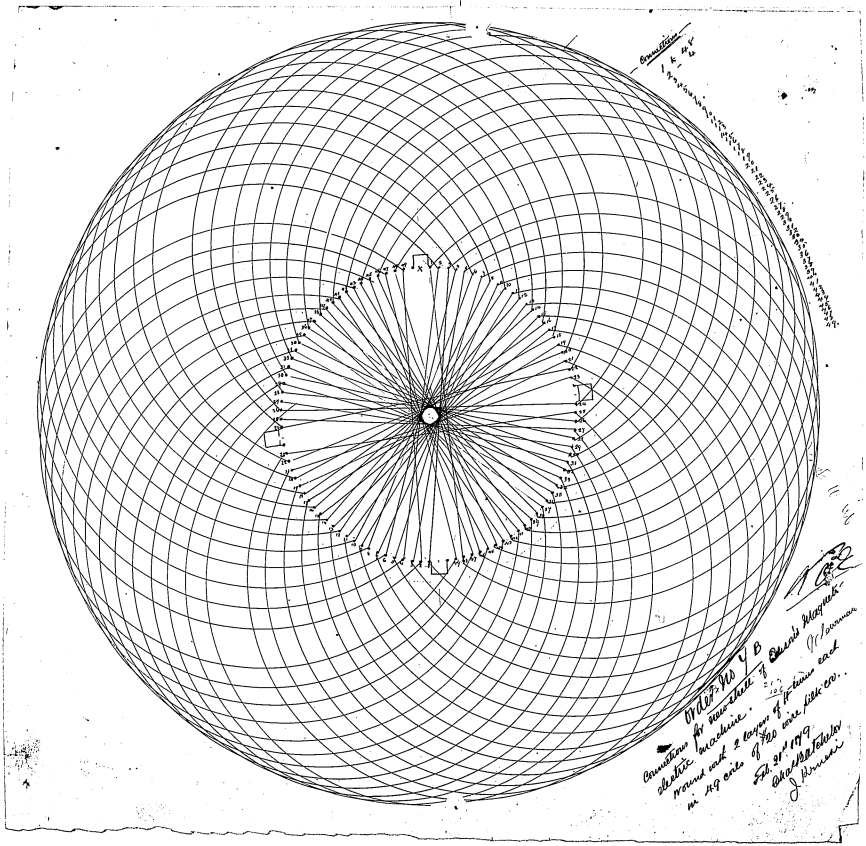
4·105
26

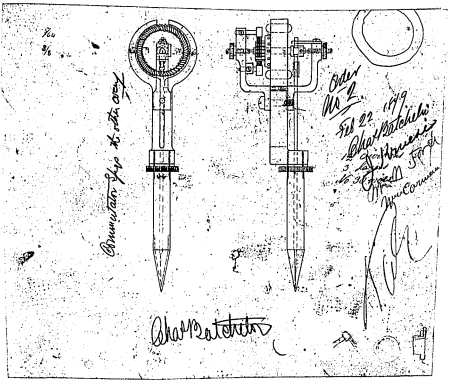
164
106
584
424
160

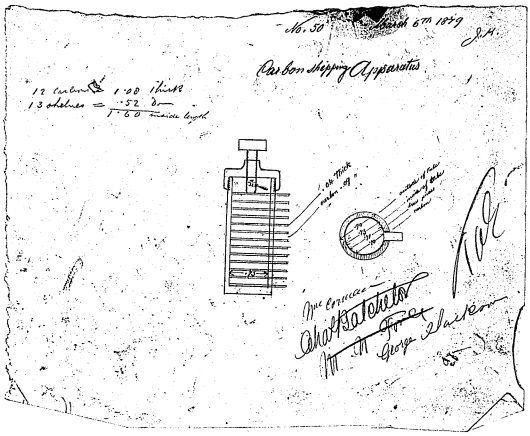
164

5·56
3·14
2·224
5·562
16·686

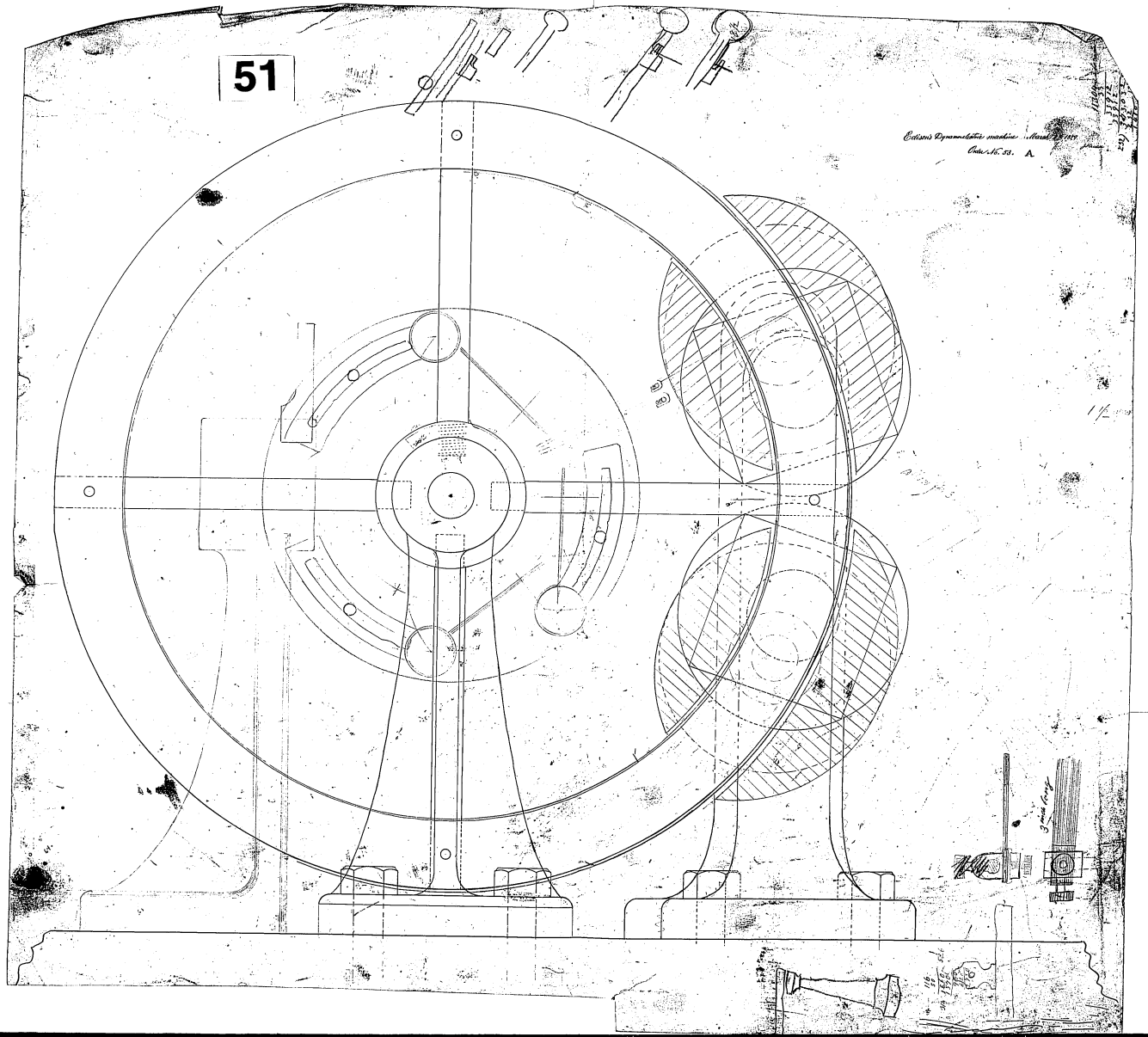
106) 17·45·4 (164
106
635
636
490






No. 50
Dec 6th 1879
Dr. H.
Dr. Born Shipping Apparatus
12 Inches = 1.00 Thick
13 Inches = .52 Dm
1.60 Inches Length
1.00 Thick
Dm. .19
Dm. .19
Dm. .19

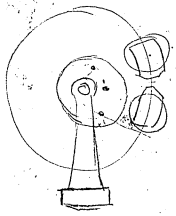
51

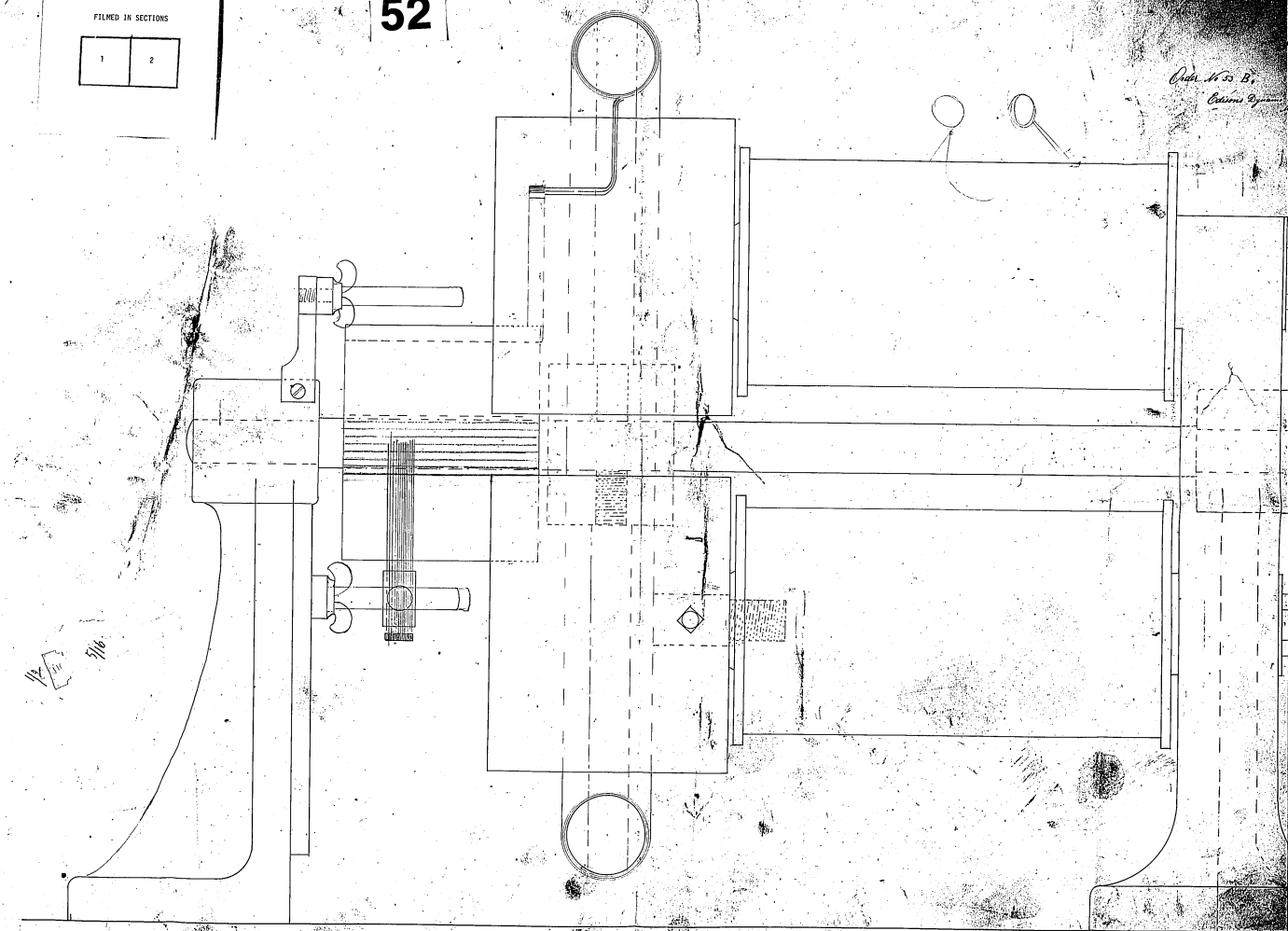


FILMED IN SECTIONS

1 2

52





FILMED IN SECTIONS

1 2

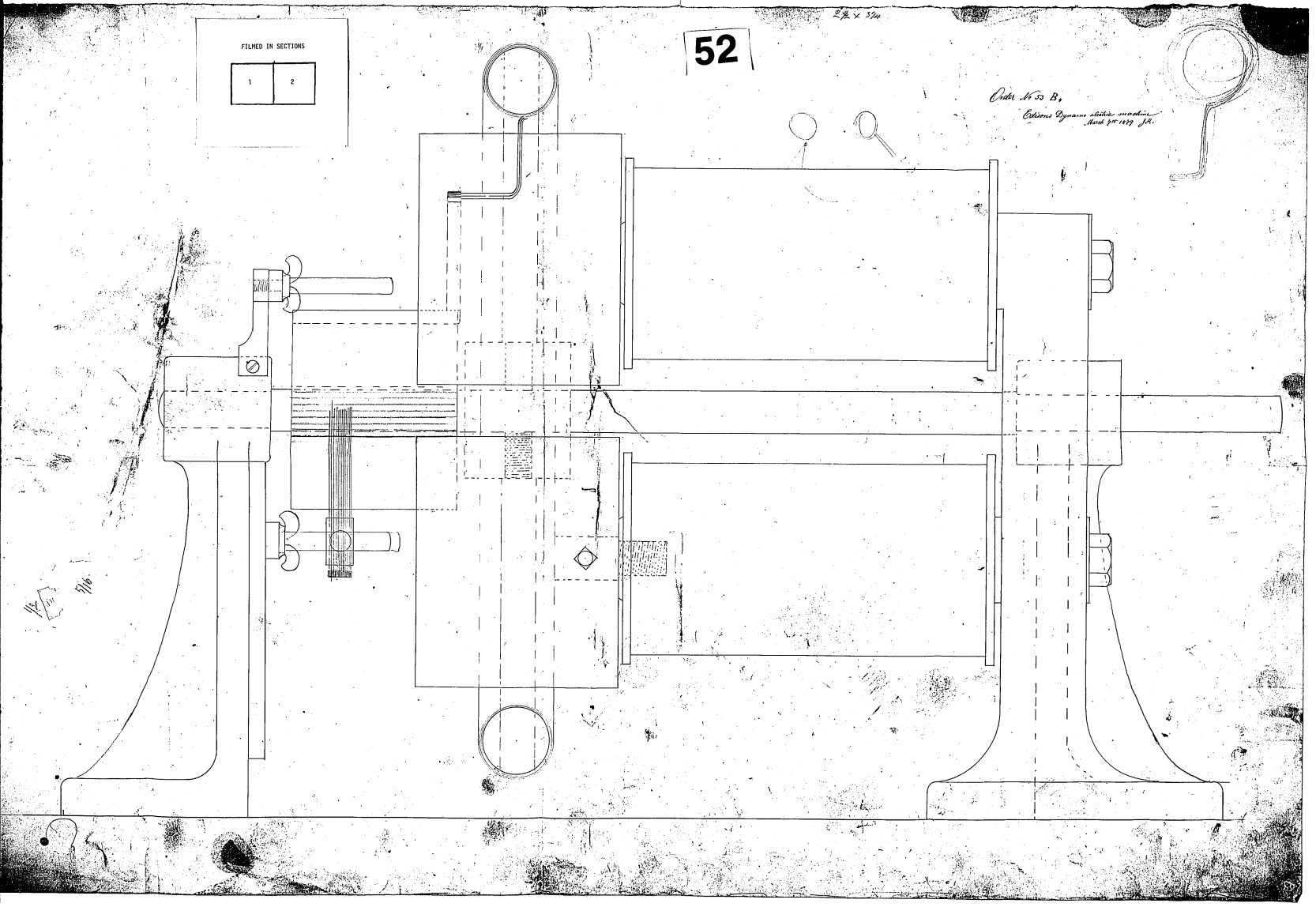
52

2½ × 3¼

Order No 53 B.

Critchens Dynamo electric machine

March 9th 1889 J.A.



FILMED IN SECTIONS

1 | 2

52

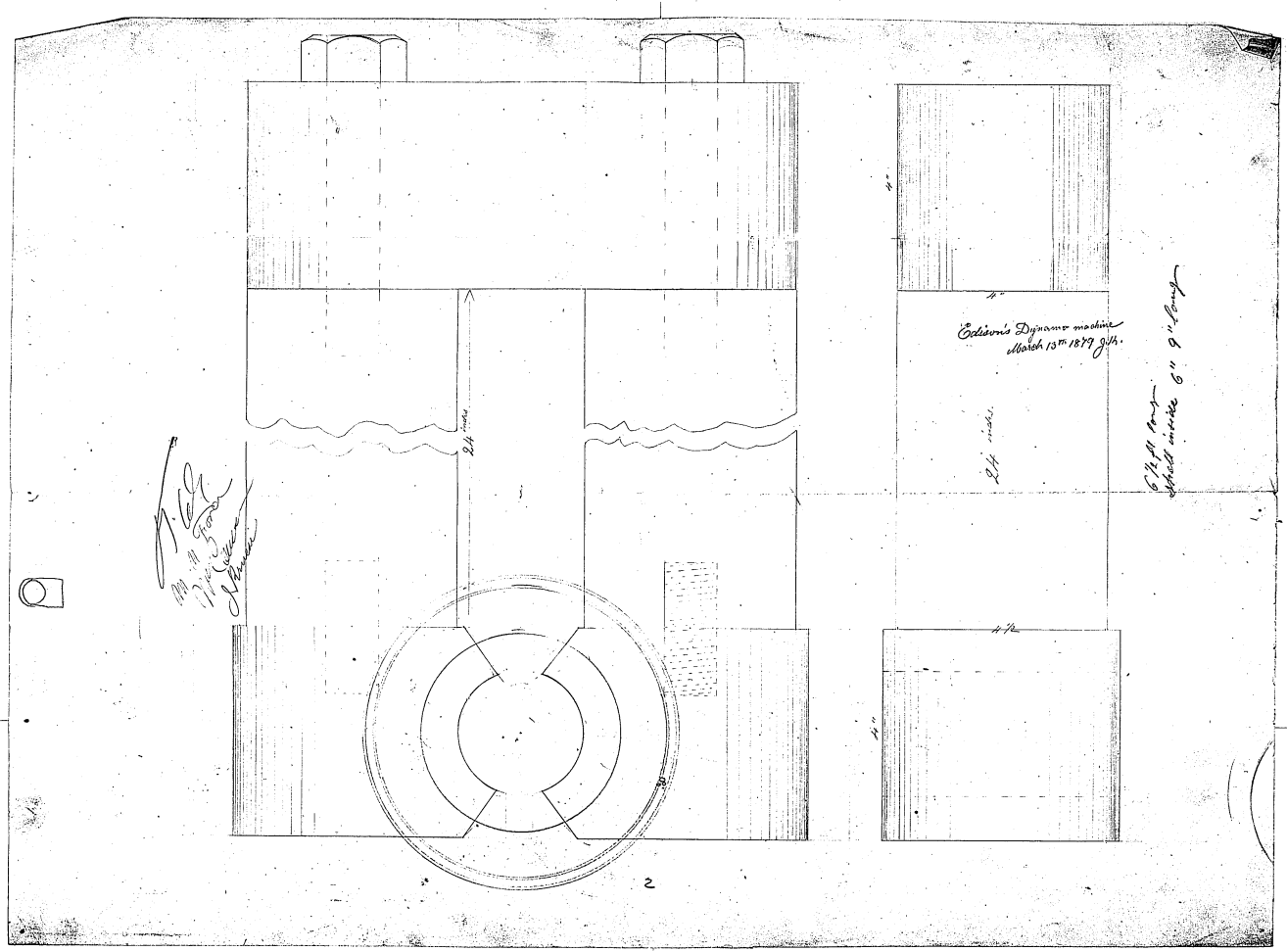
52

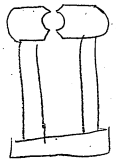
FILMED IN SECTIONS

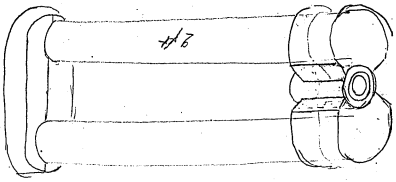
1 2

N

S.

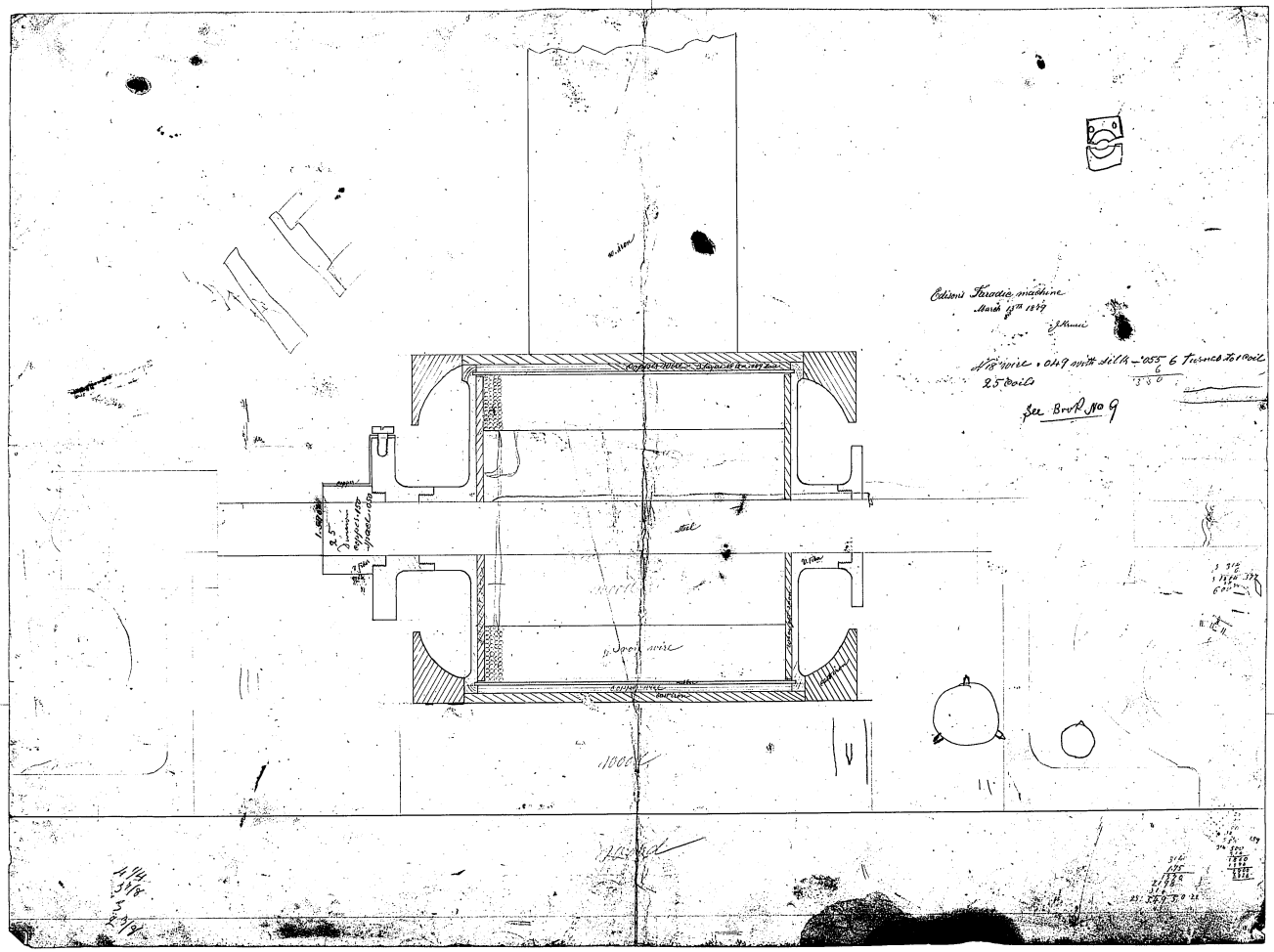

Edison's Dynamo machine
March 13th 1879 J.H.
6" 9" long
Effect inside
4"
4"
4"
4"
2

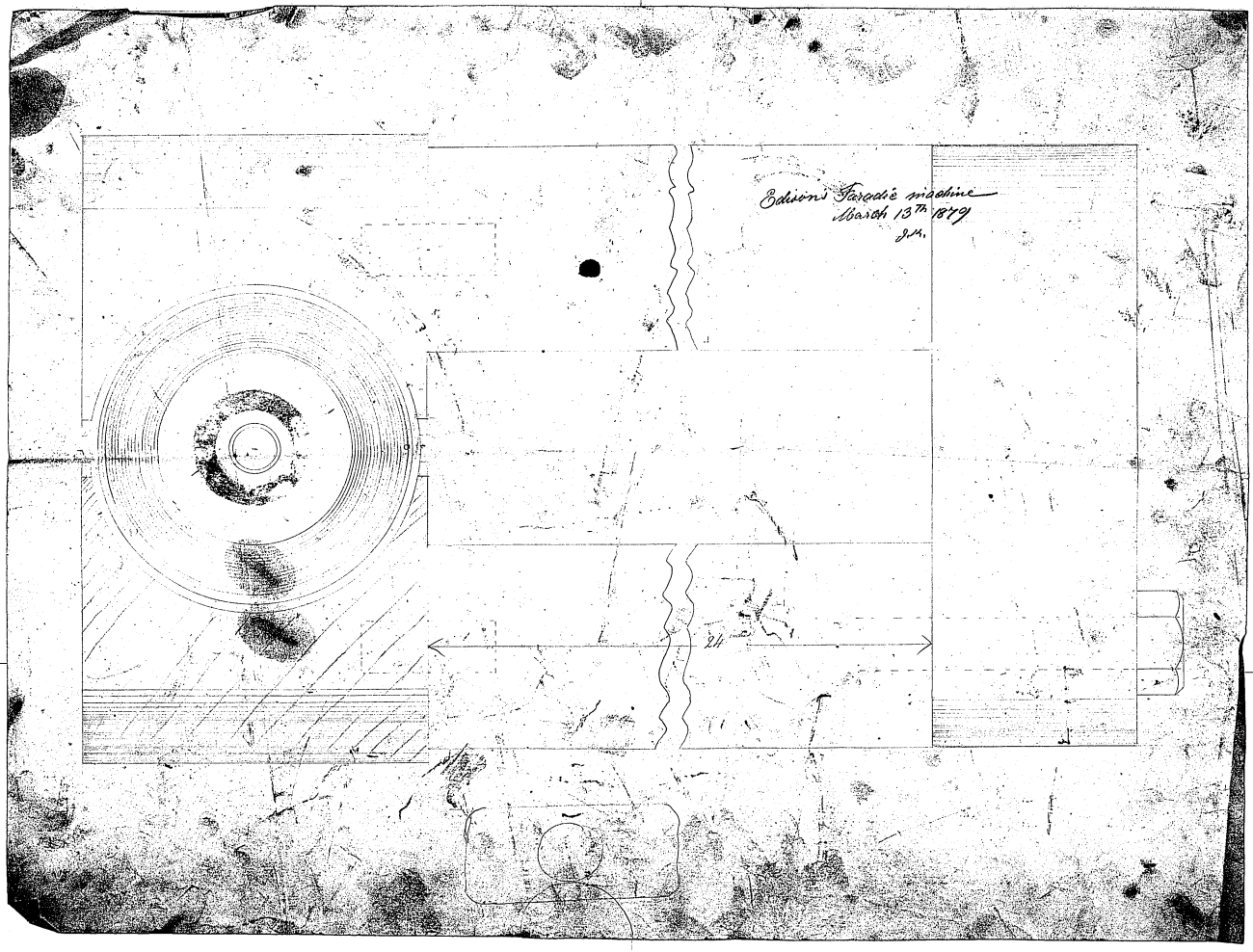


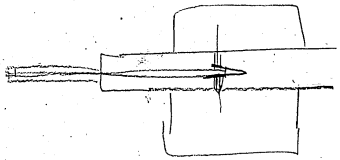


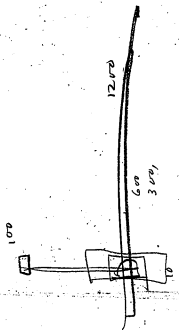
Mar. 79
(Mus. 13, 111)

Mar 13, 79

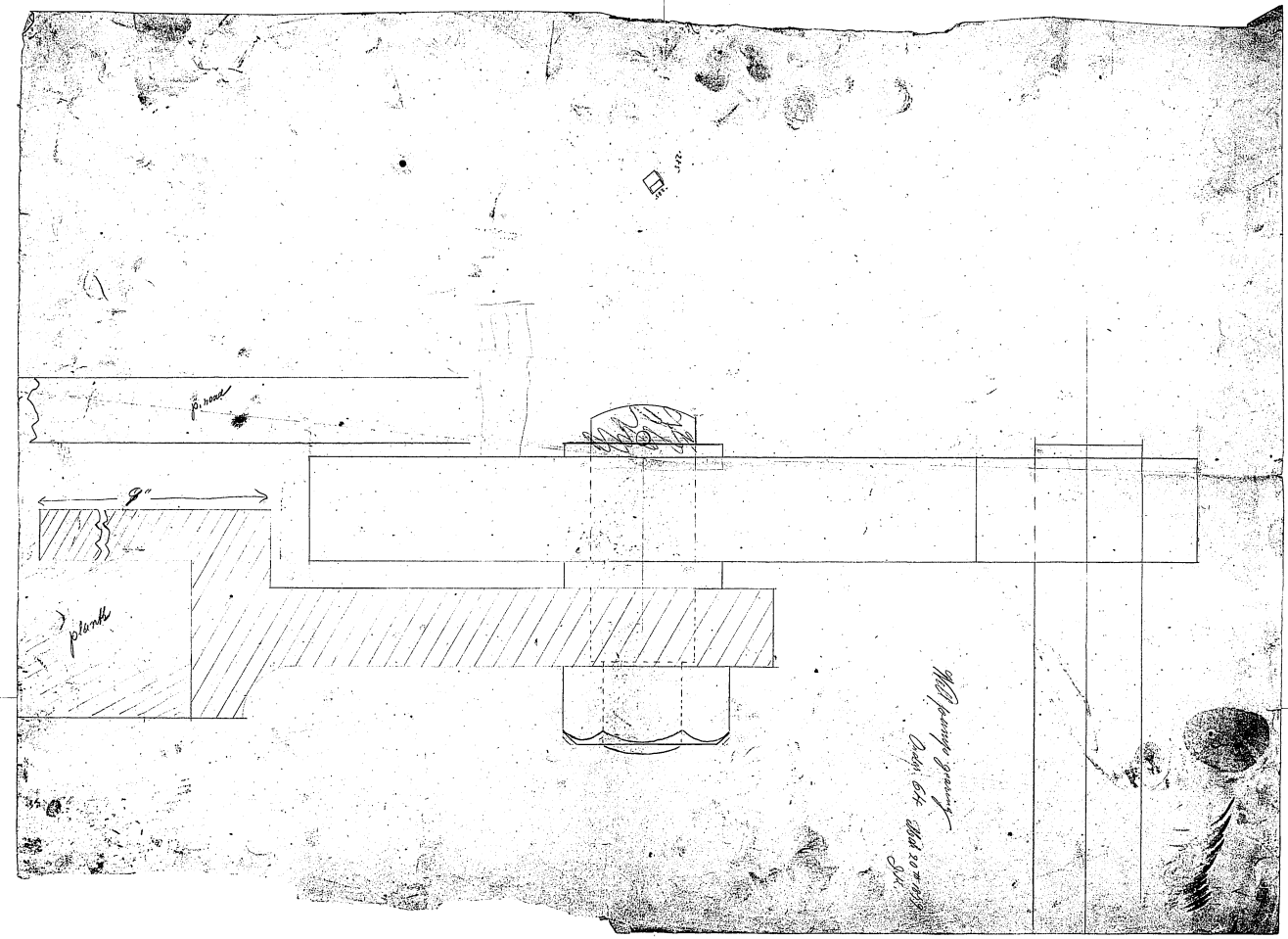

Edison Faraday machine
March 17th 1879
4 turns wire, .049 unit dia. .055 6 turns to coil
25 coils
See Bro'R No 9

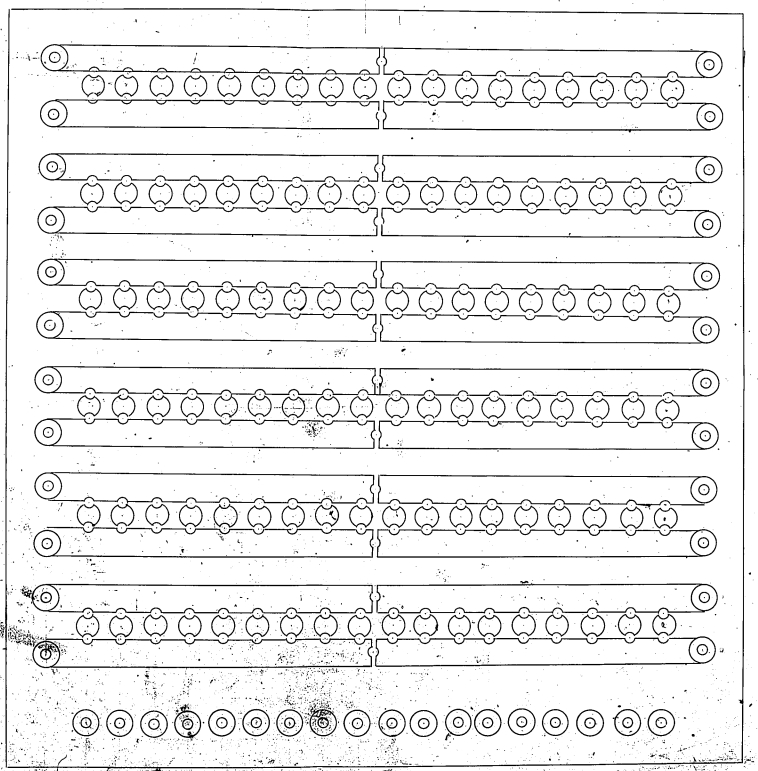

Edison's Faradè machine
March 13th 1879
J.M.

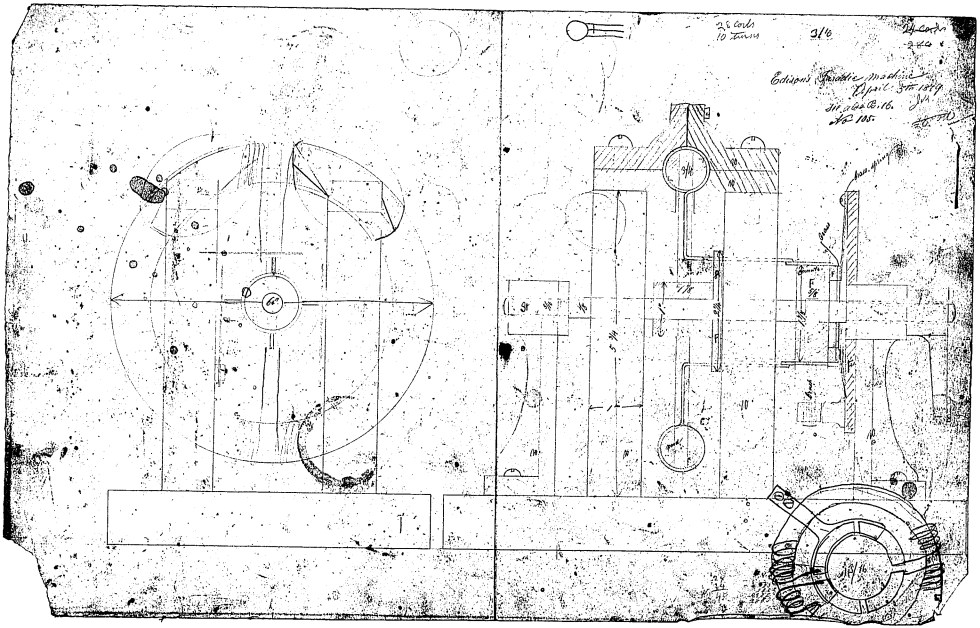




60 – 19 – 20 – 10


plank
9"
plank

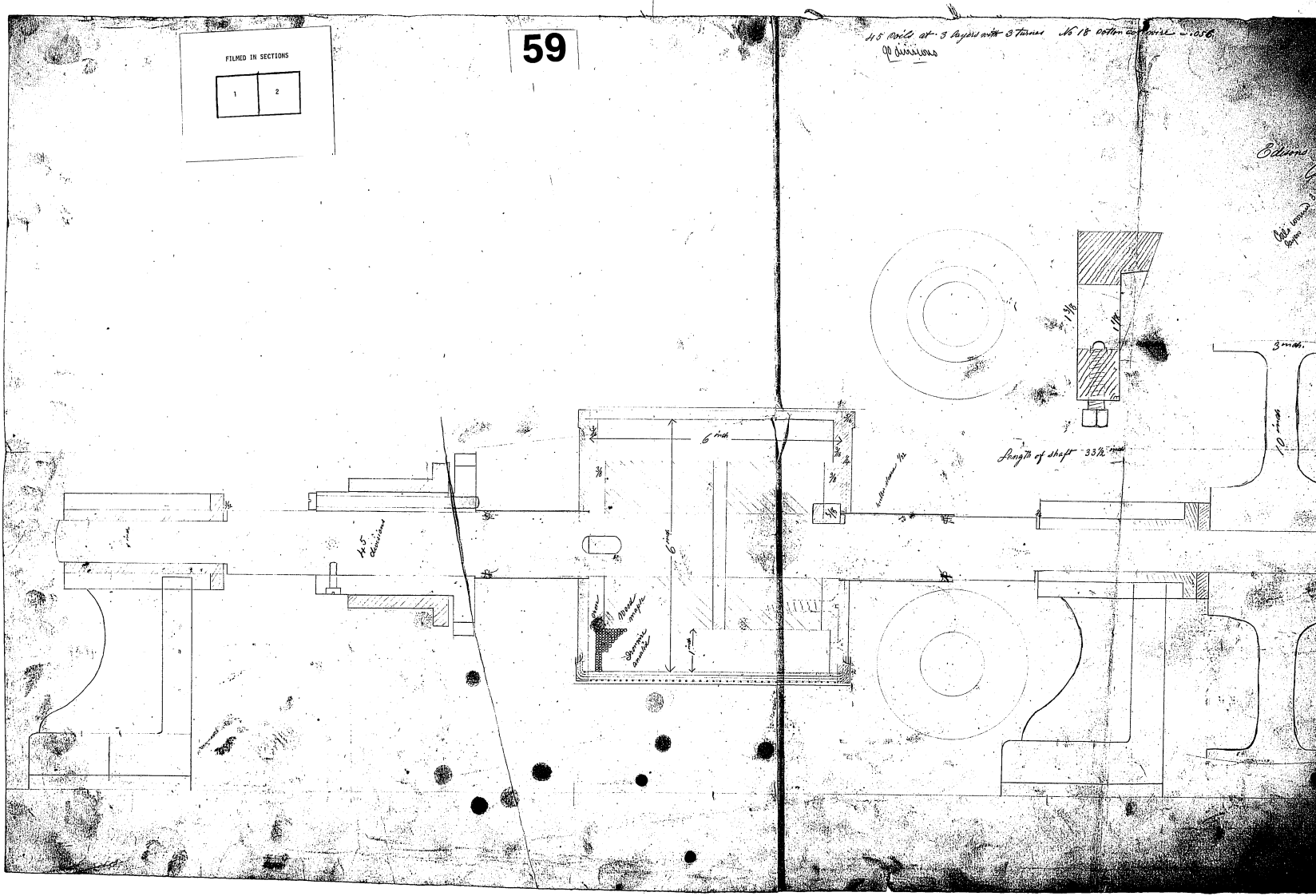



Edison's Spindle machine
Pat. Dec. 16.
No 185.

FILMED IN SECTIONS

1 | 2

59


45 coils at 3 layers with 3 turns No 18 cotton covered wire = .056
Length of shaft 33½
6 inch
6 inch
Model magnet
Armature diameter
No 5 diamond

59

FILMED IN SECTIONS

1 2

415 coils at 3 layers with 3 turns No 18 cotton covered wire = .056.
90 divisions

840 ft.

Edison's Parodic machine
April 15th 1879
Alteration of No 58

J. Kruesi

Coils wound 3 layers

1 3/8

1 1/8

3 ends.

10 inches

Length of shaft 33 1/2 inches

6 inches

6 inches

1/8 inch

1/4 inch

1/8 inch

1/8 inch

1/8 inch

1/4 inch

1/4 inch

1/4

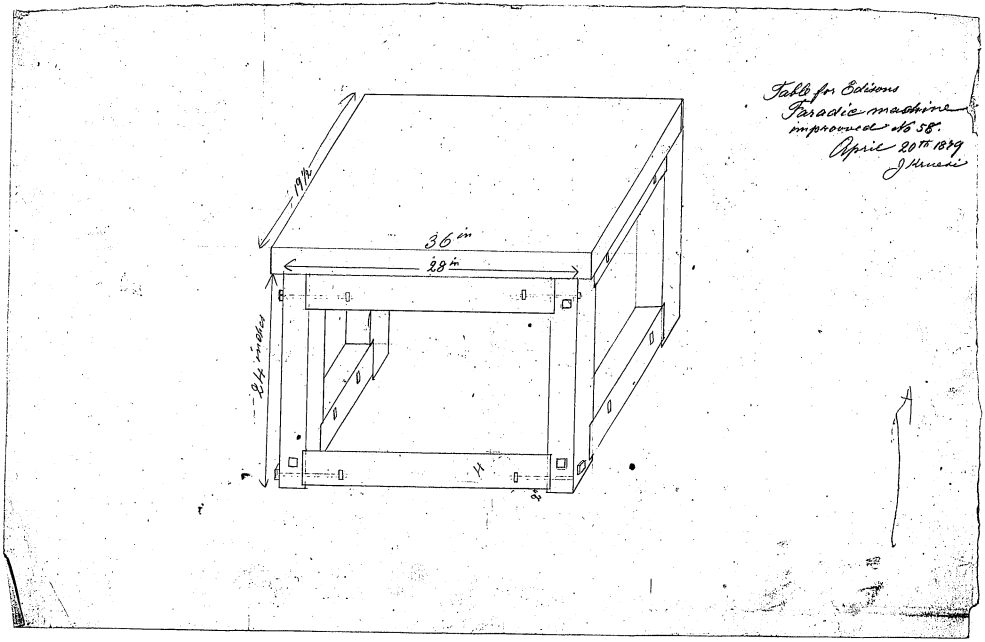
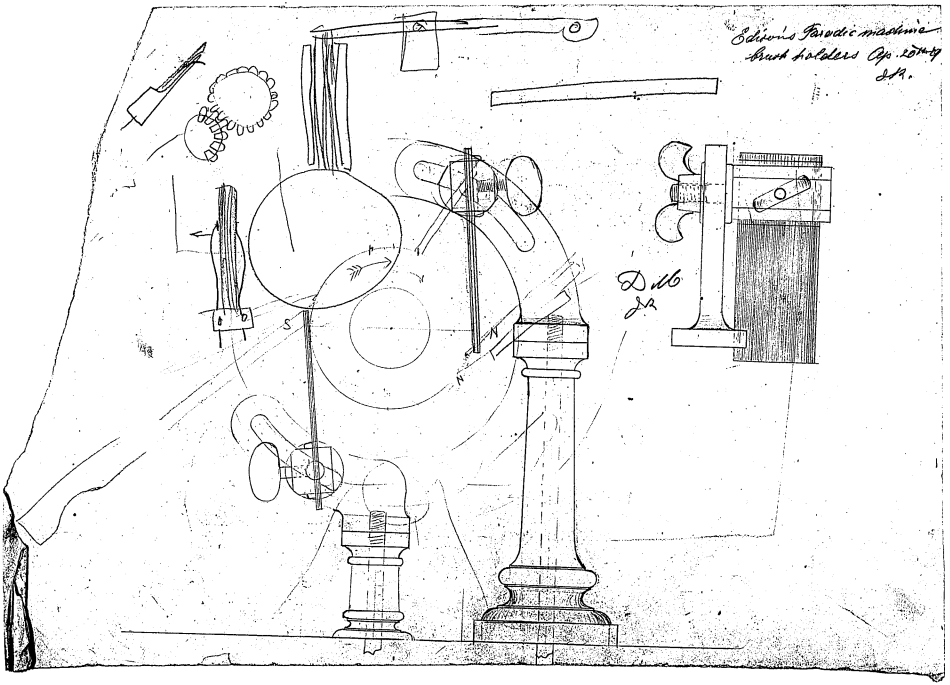
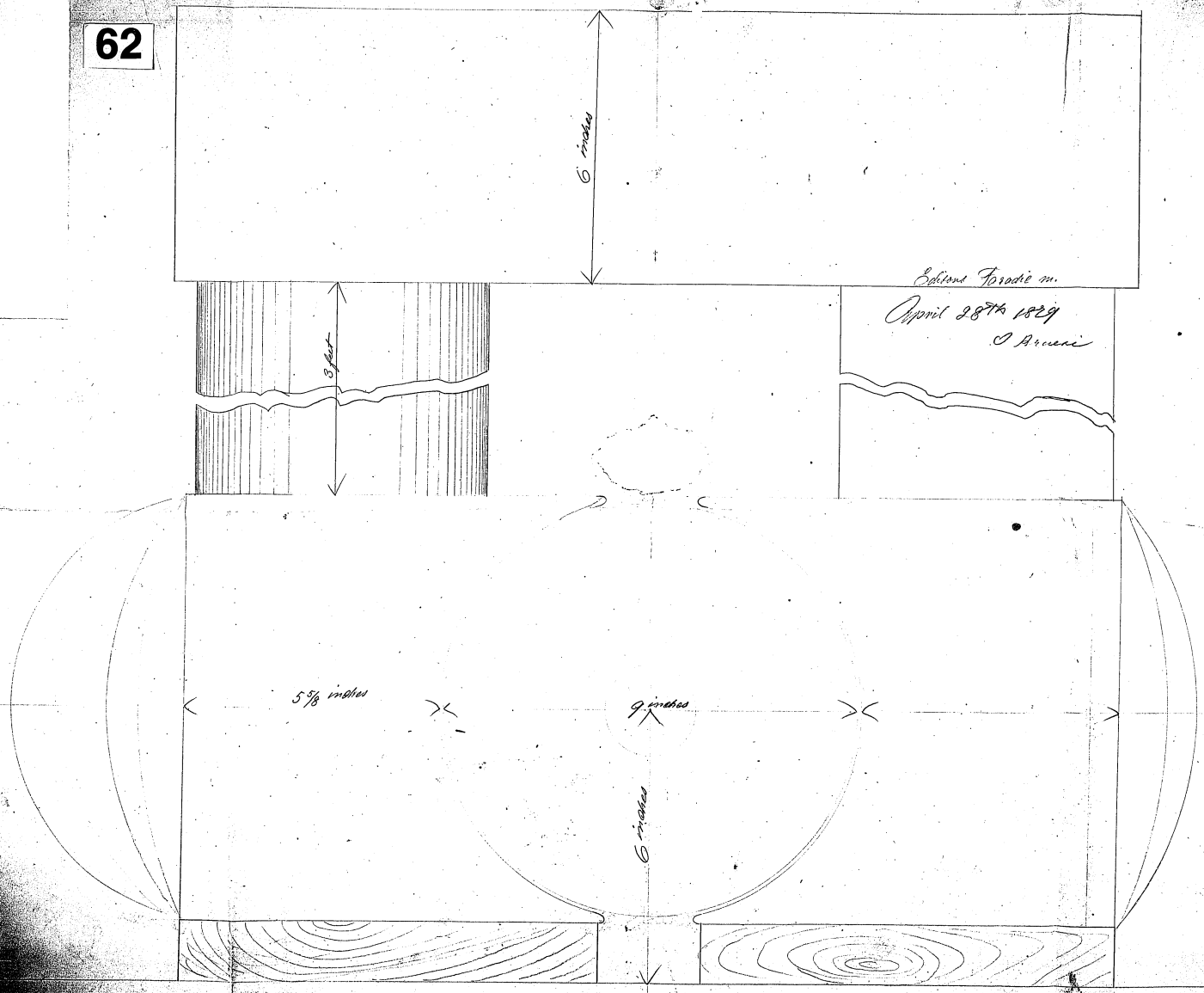


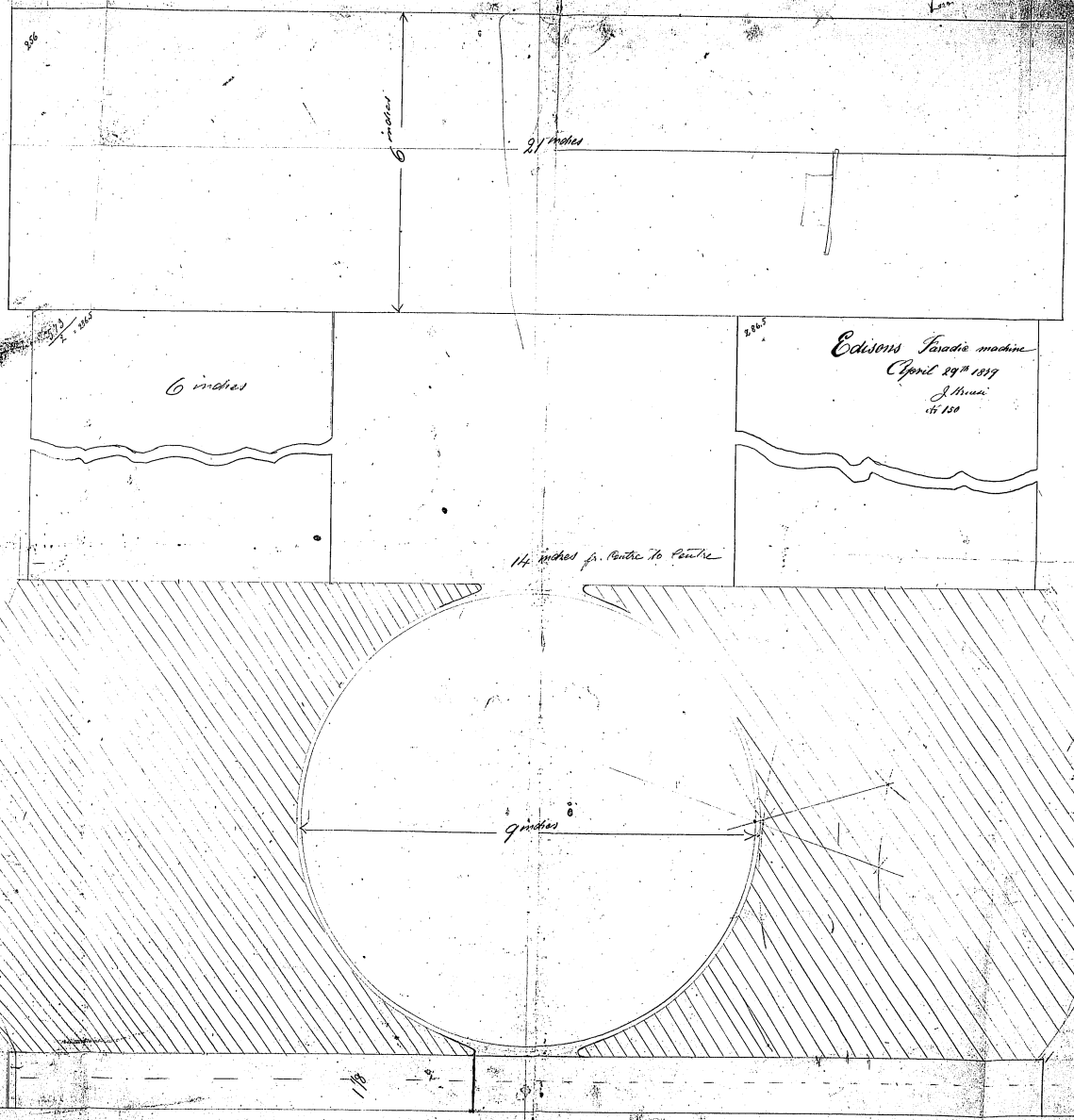
Table for Edisons
Paradic machine
improved No 58.
April 20th 1879
J Kruesi
14"
36 in
28 in
30 inches


Edison's Parallel machine
Brush holders Apr. 20th 79
S
N
N

62


6 inches
3 feet
Editions Terrade m.
April 28th 1829
5 5/8 inches
9 inches
6 inches

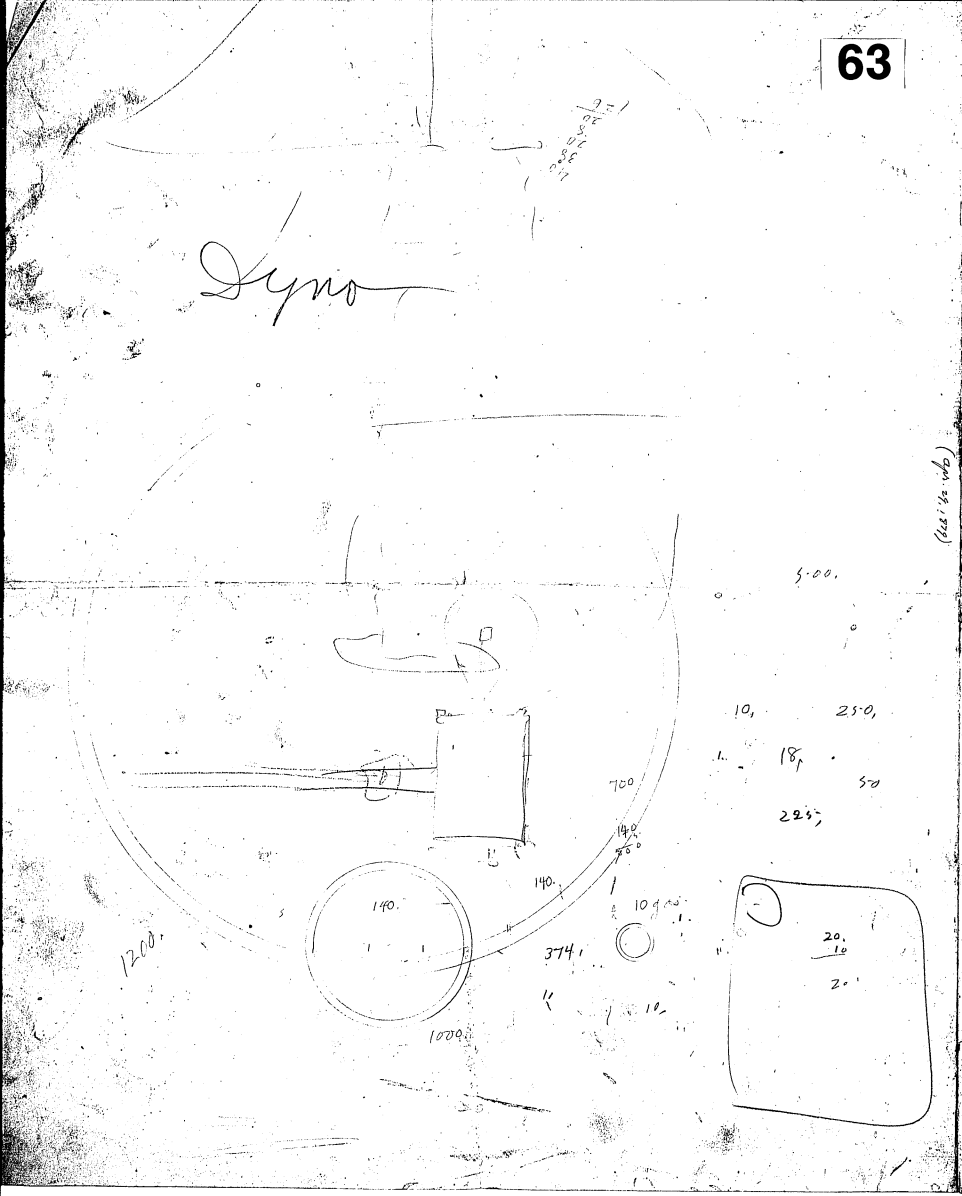
63


6 inches
9½ inches
6 inches
Edisons Faradic machine
April 29th 1877
J. Bruce
No 150
14 inches fr. Centre to Centre
9 inches

63

FILMED IN SECTIONS

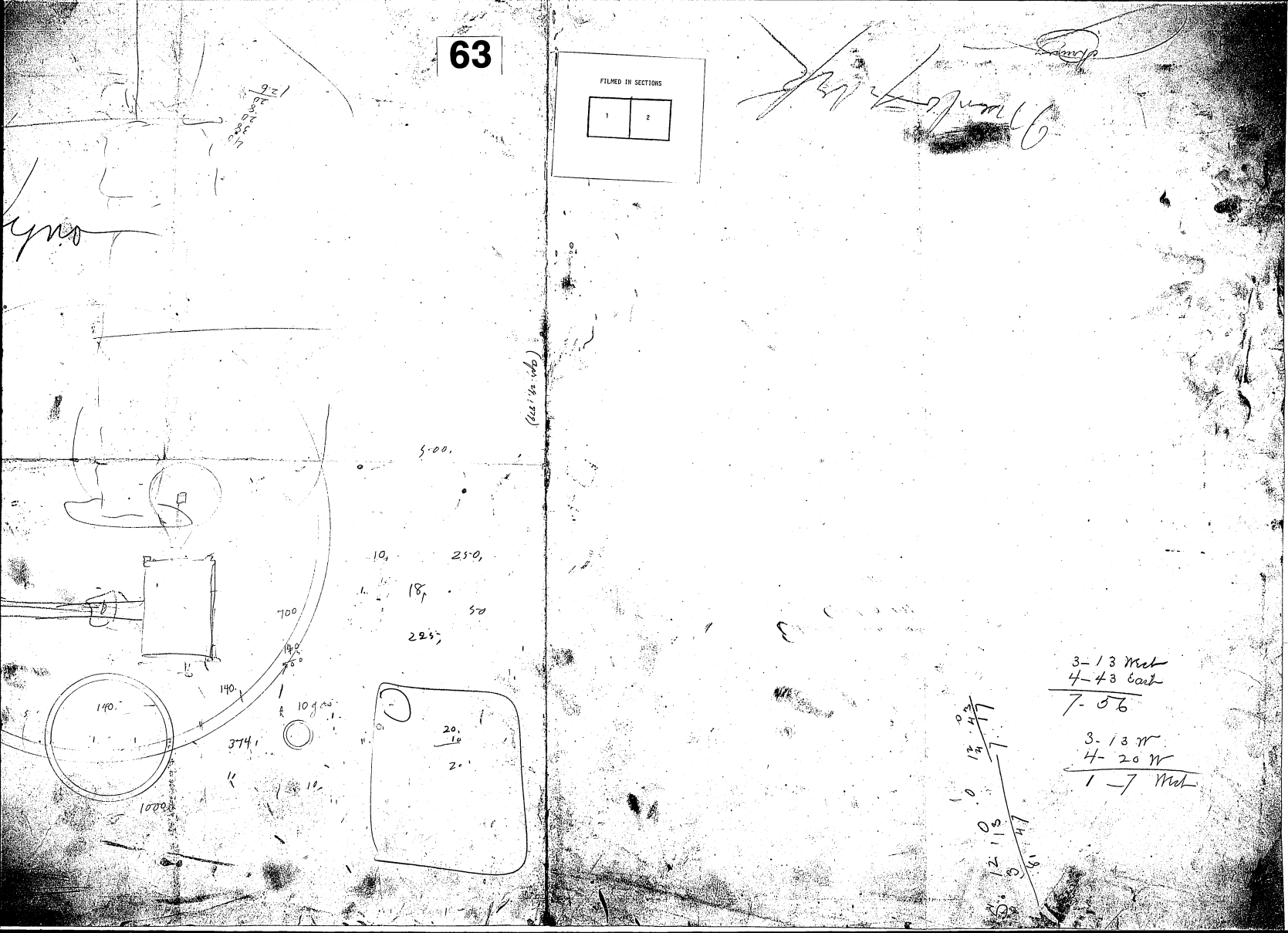
1 2

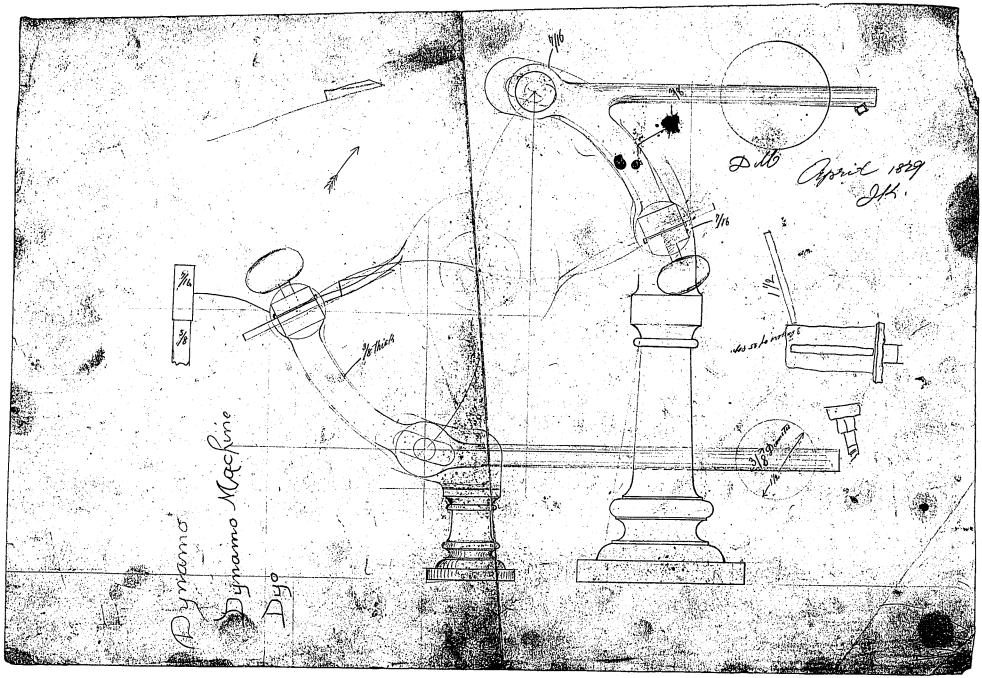


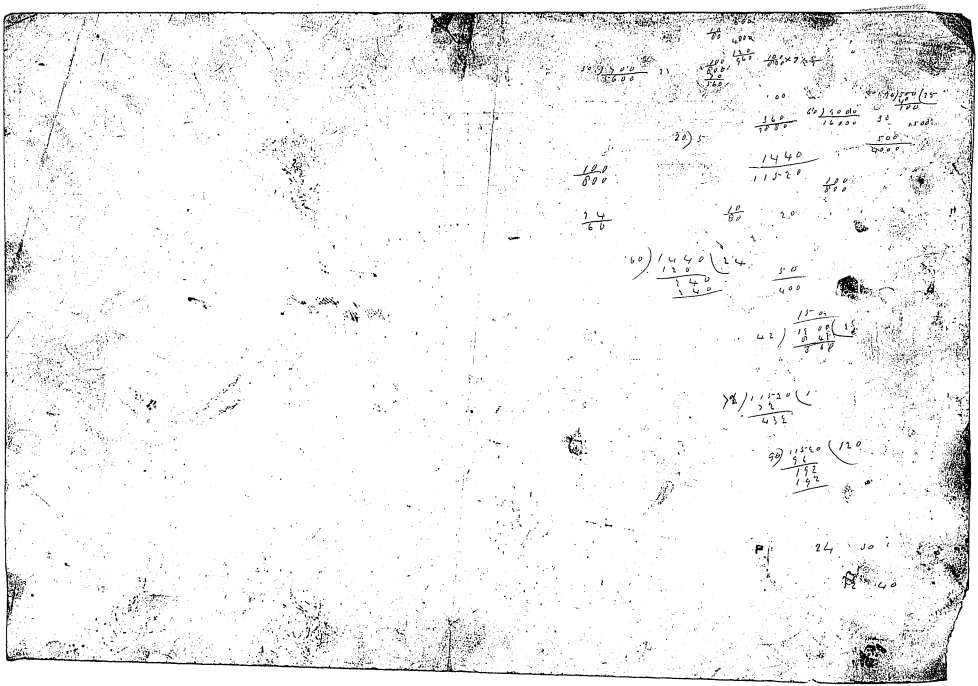
63

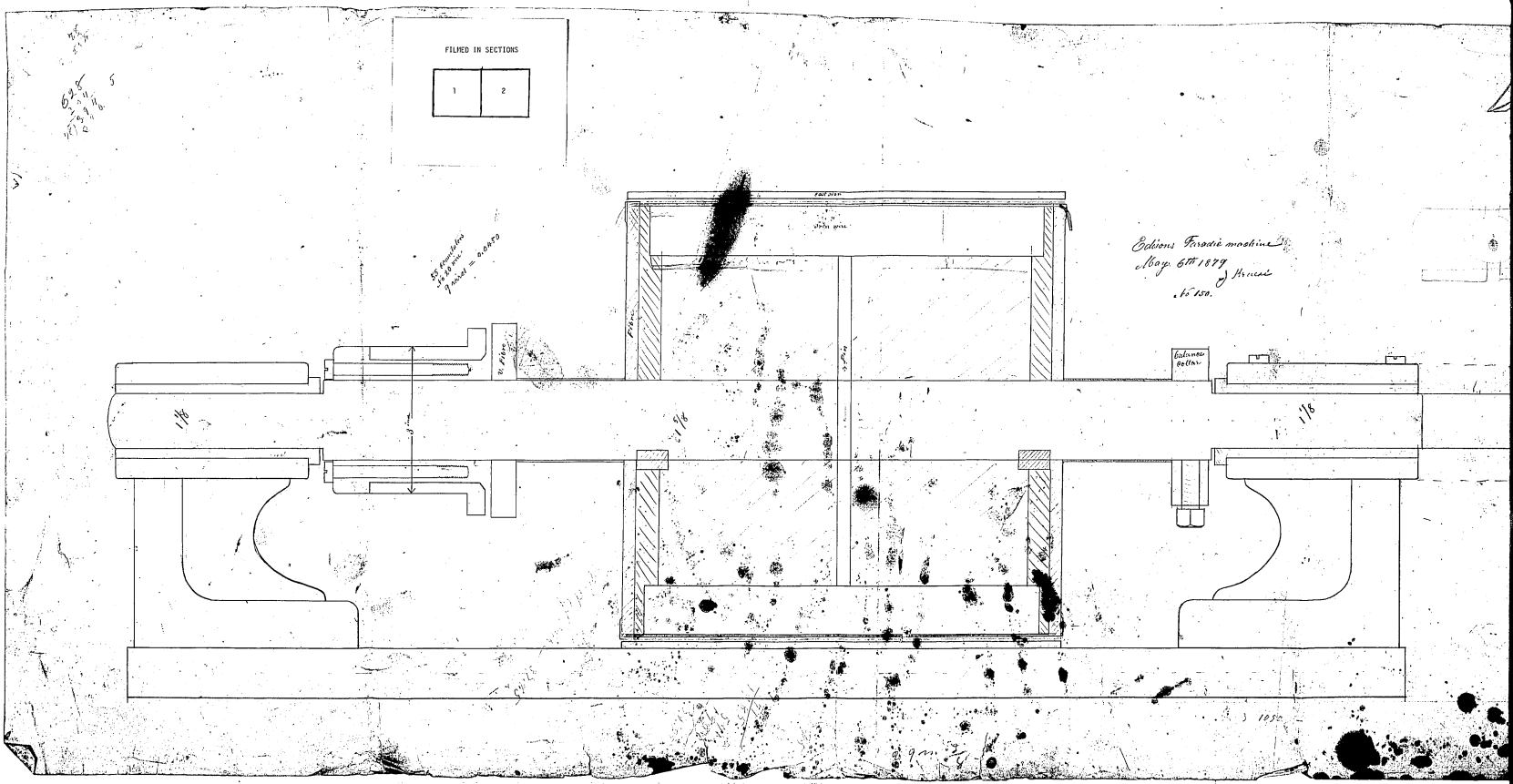
FILMED IN SECTIONS

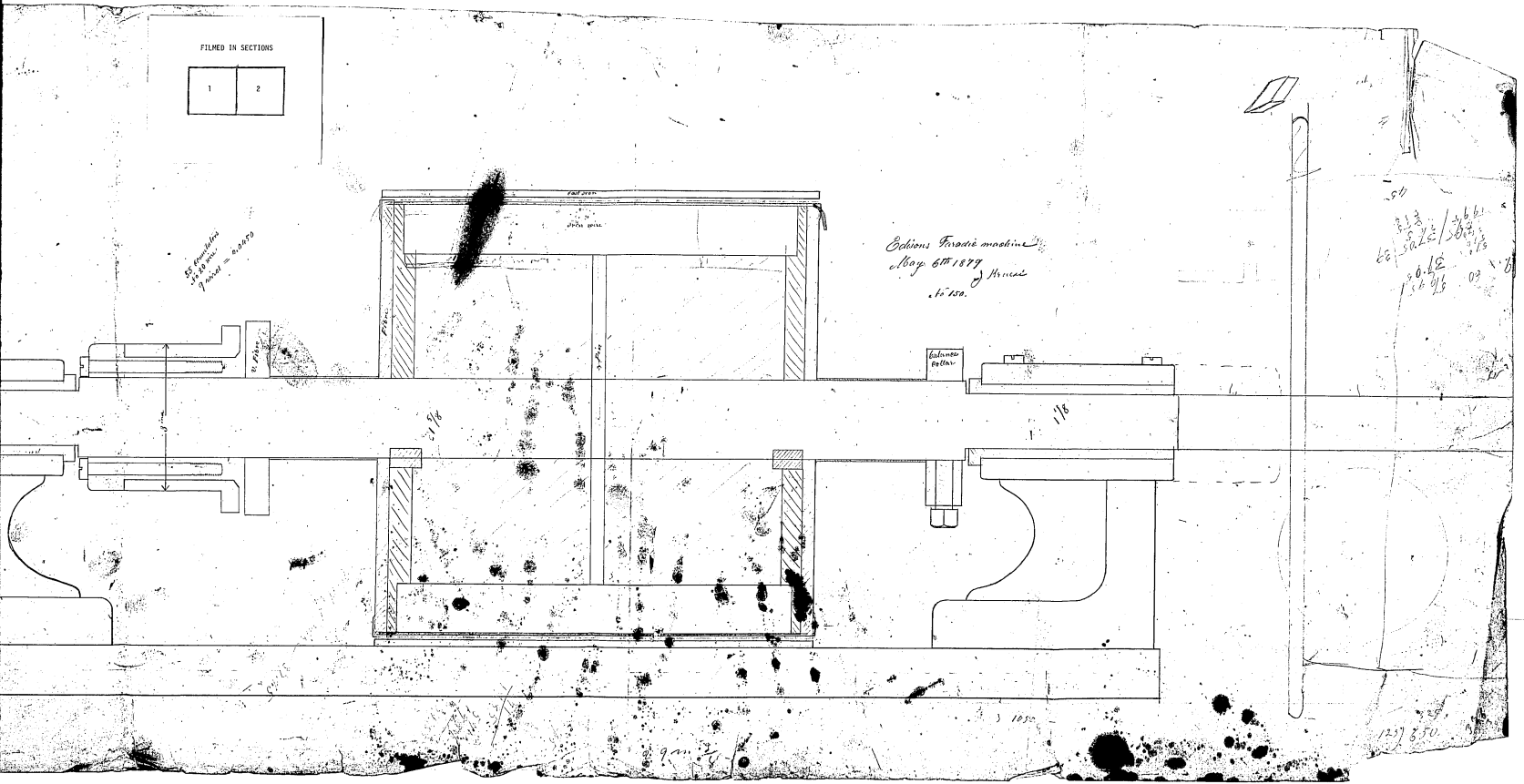
1 2

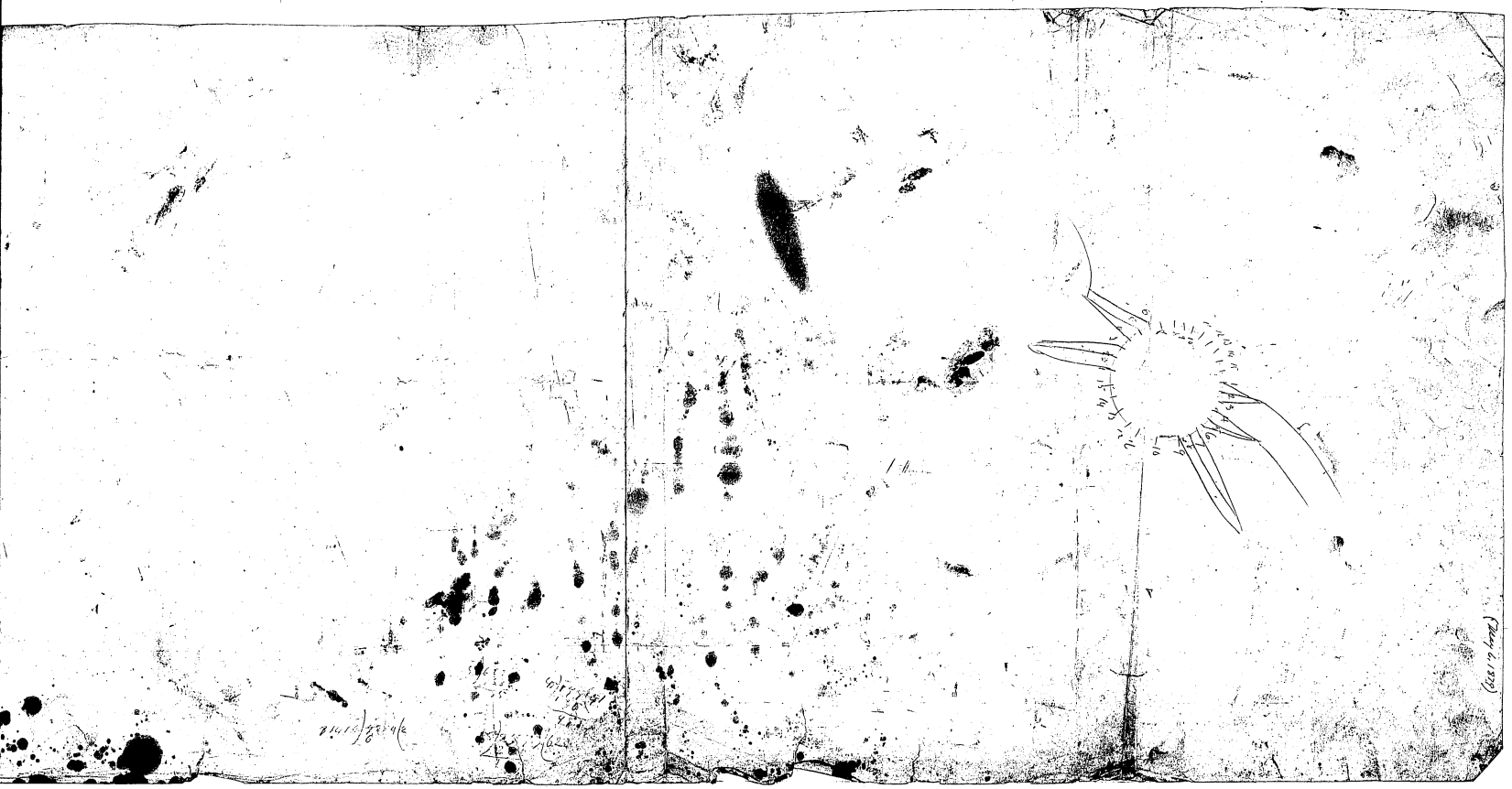


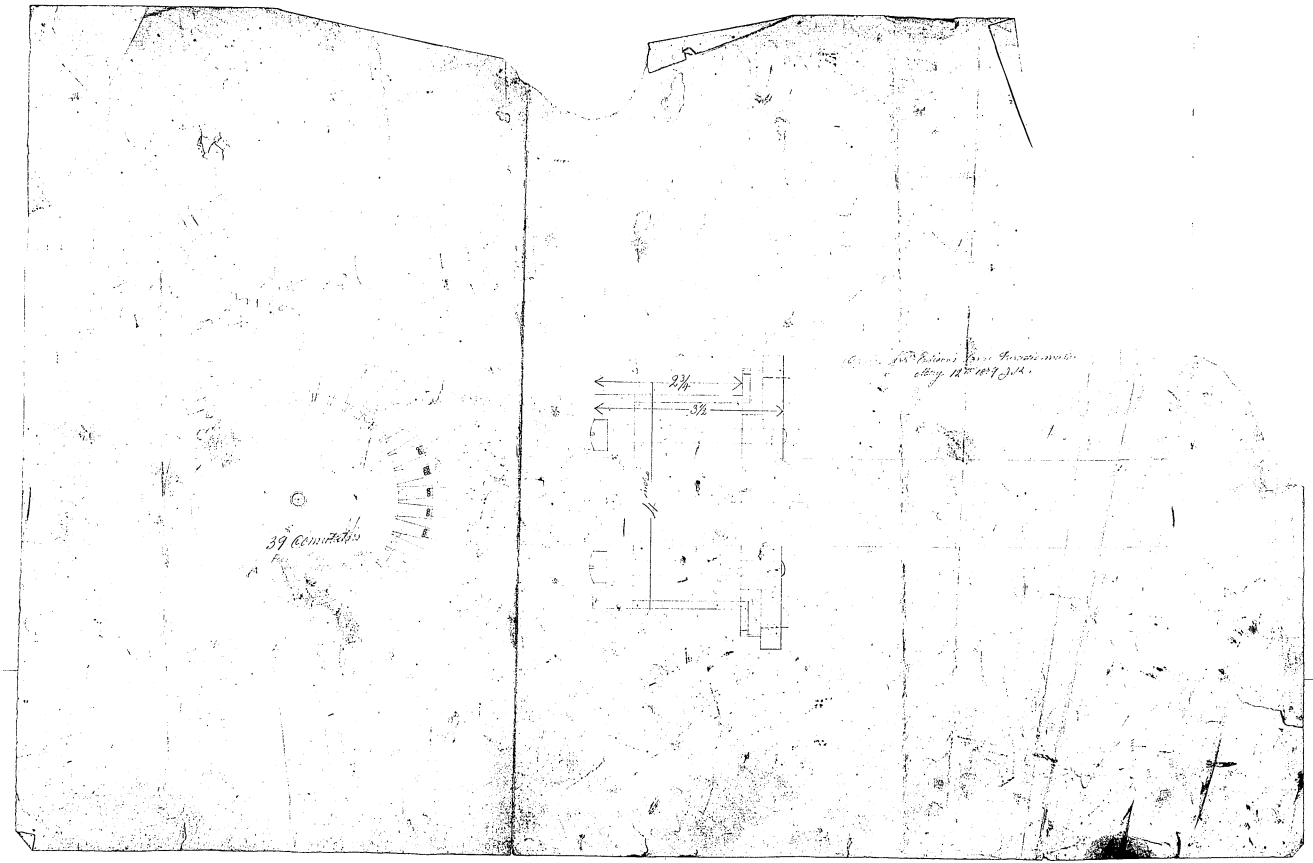

Dynamo
Dynamo Magazine
Dyno
Ditto April 1929
JK.

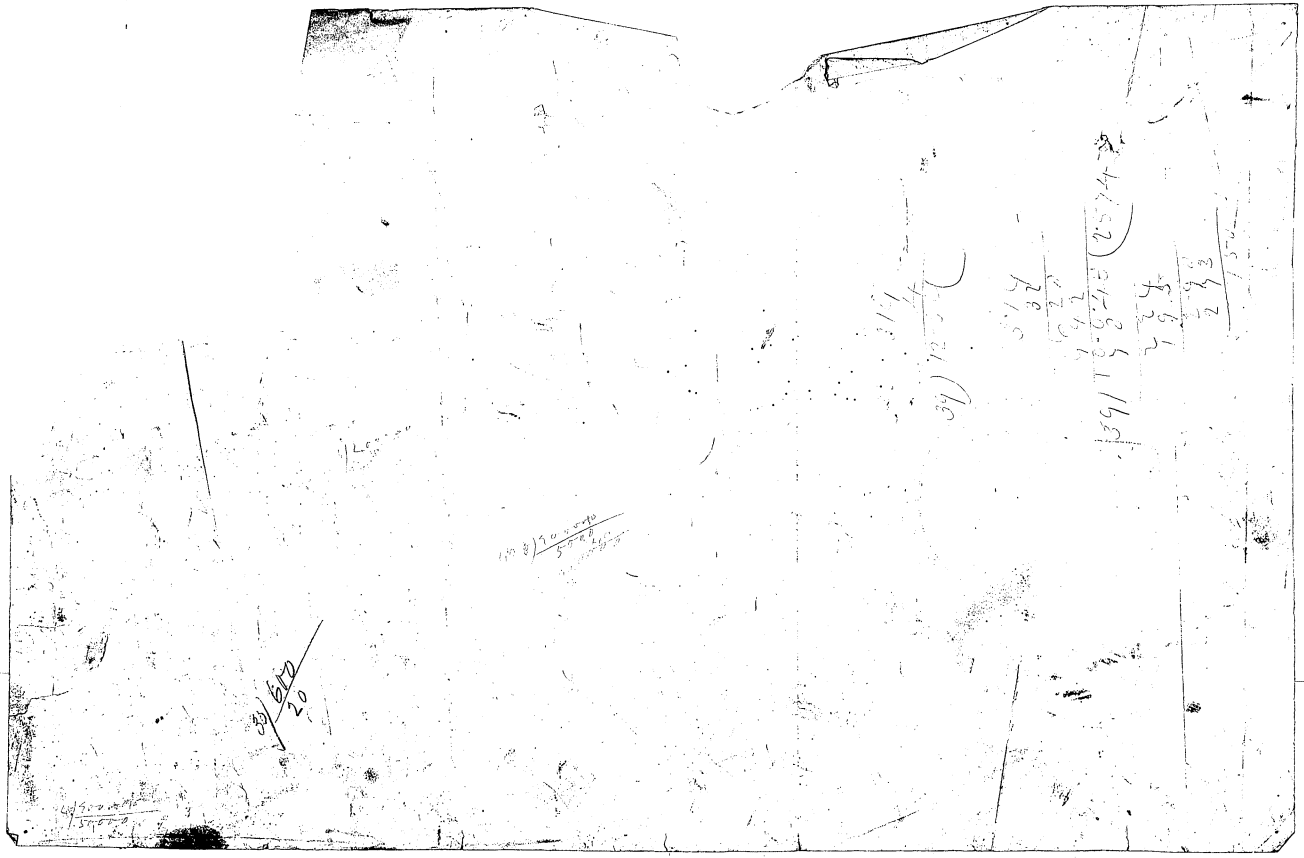


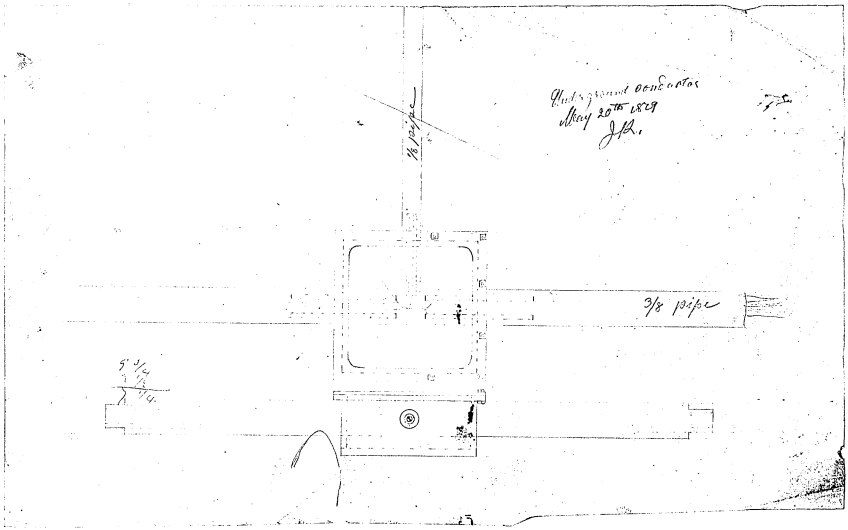

FILMED IN SECTIONS
1
2
Edisons Faradic machine
May 6th 1879
J Heaviside
No 150.

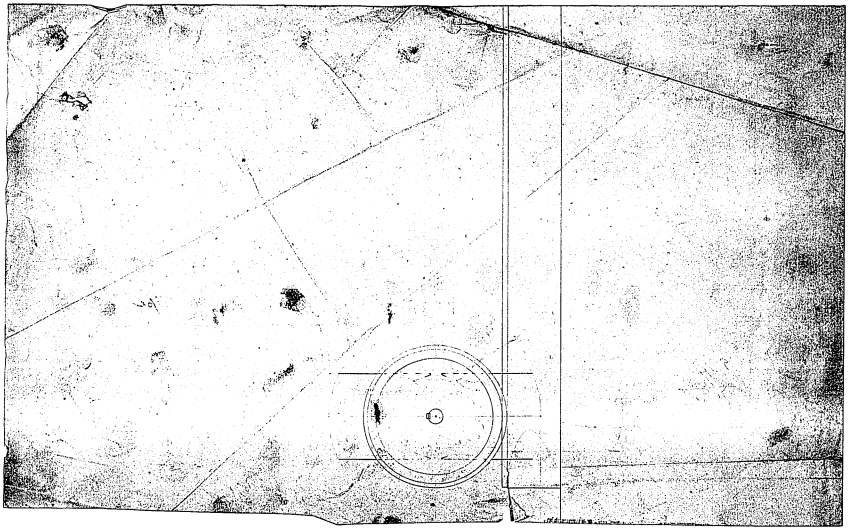

FILMED IN SECTIONS
1
2
Edisons Faradic machine
May 6th 1879
J Hinnis
to Eso.

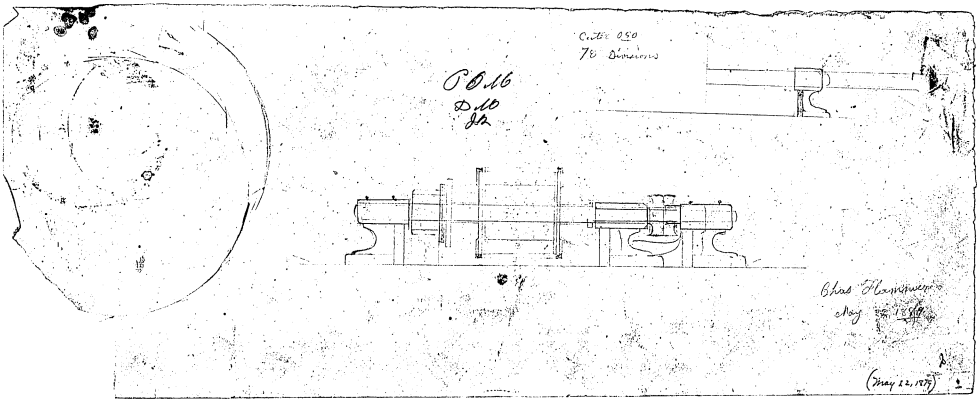


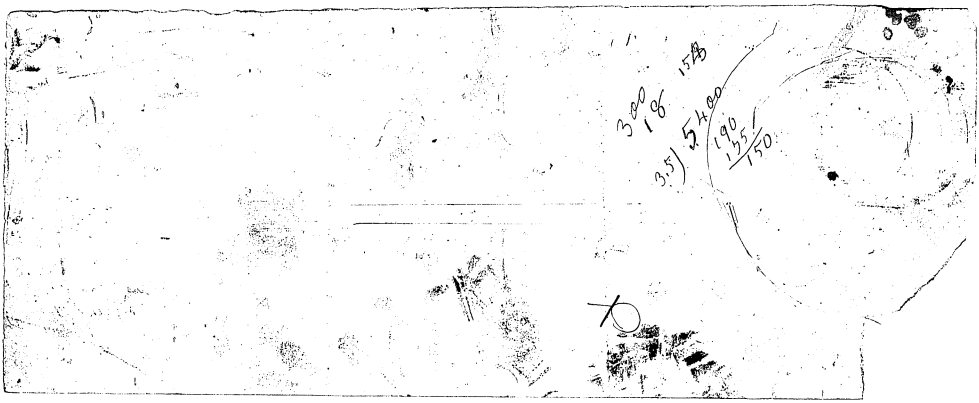

2¾
3½
39 Compartos



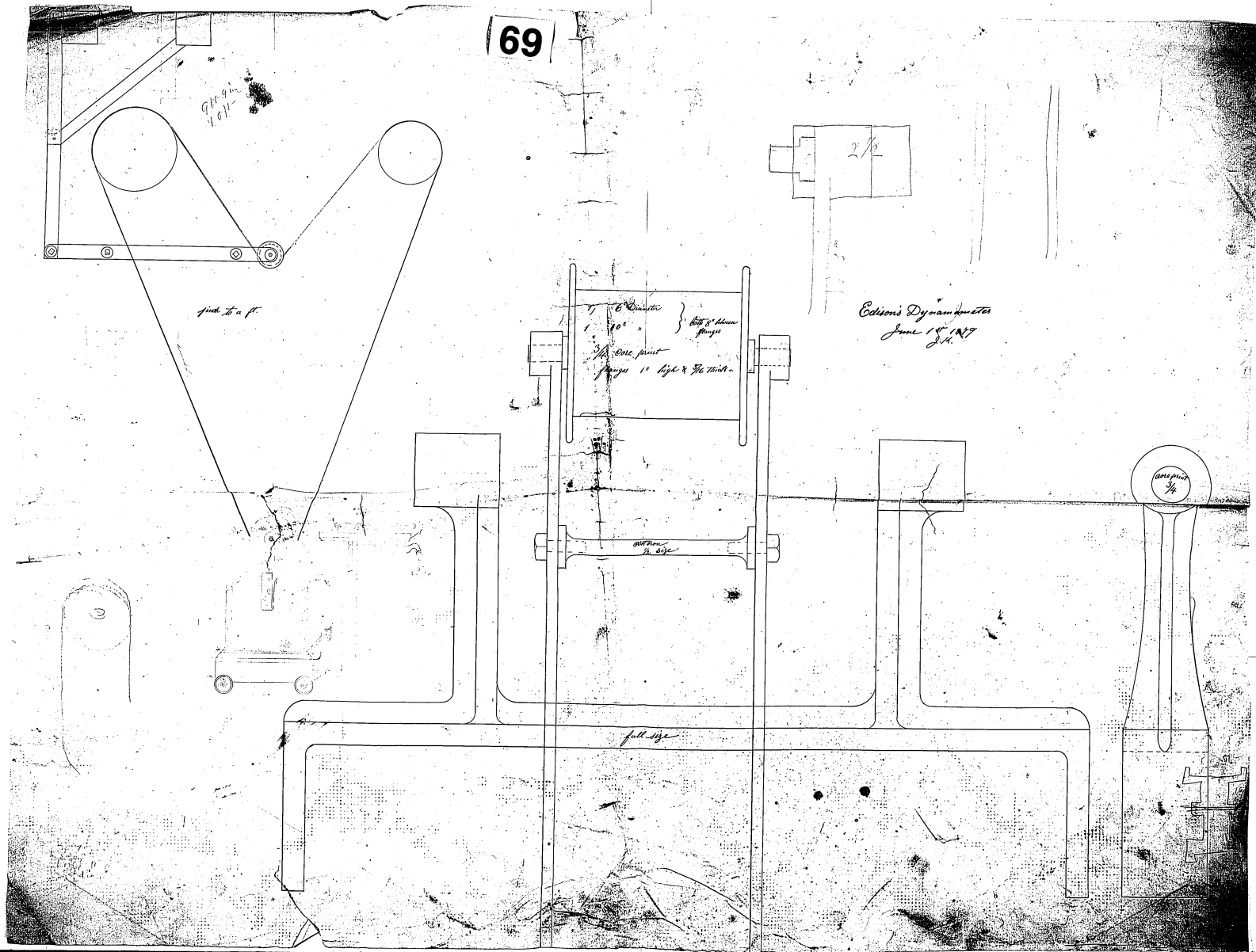

Underground condensate
May 20th 1929
J.H.
1/2 pipe
3/8 pipe
5' 3/4

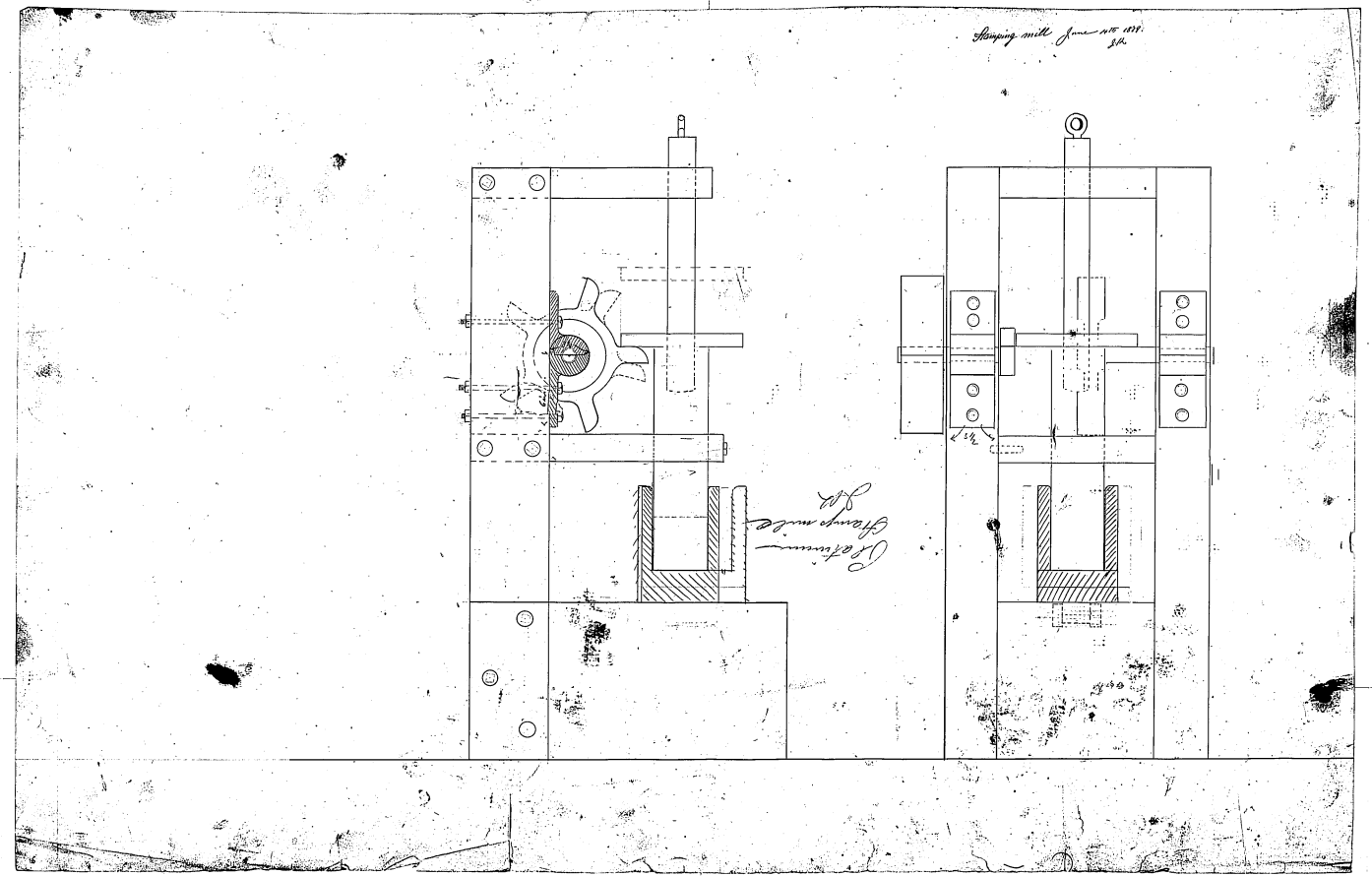



Center 0.50
78 Divisions
P.O.16
Dito
Ja.
Chas Hammesfahr
May
(May 22, 1875)

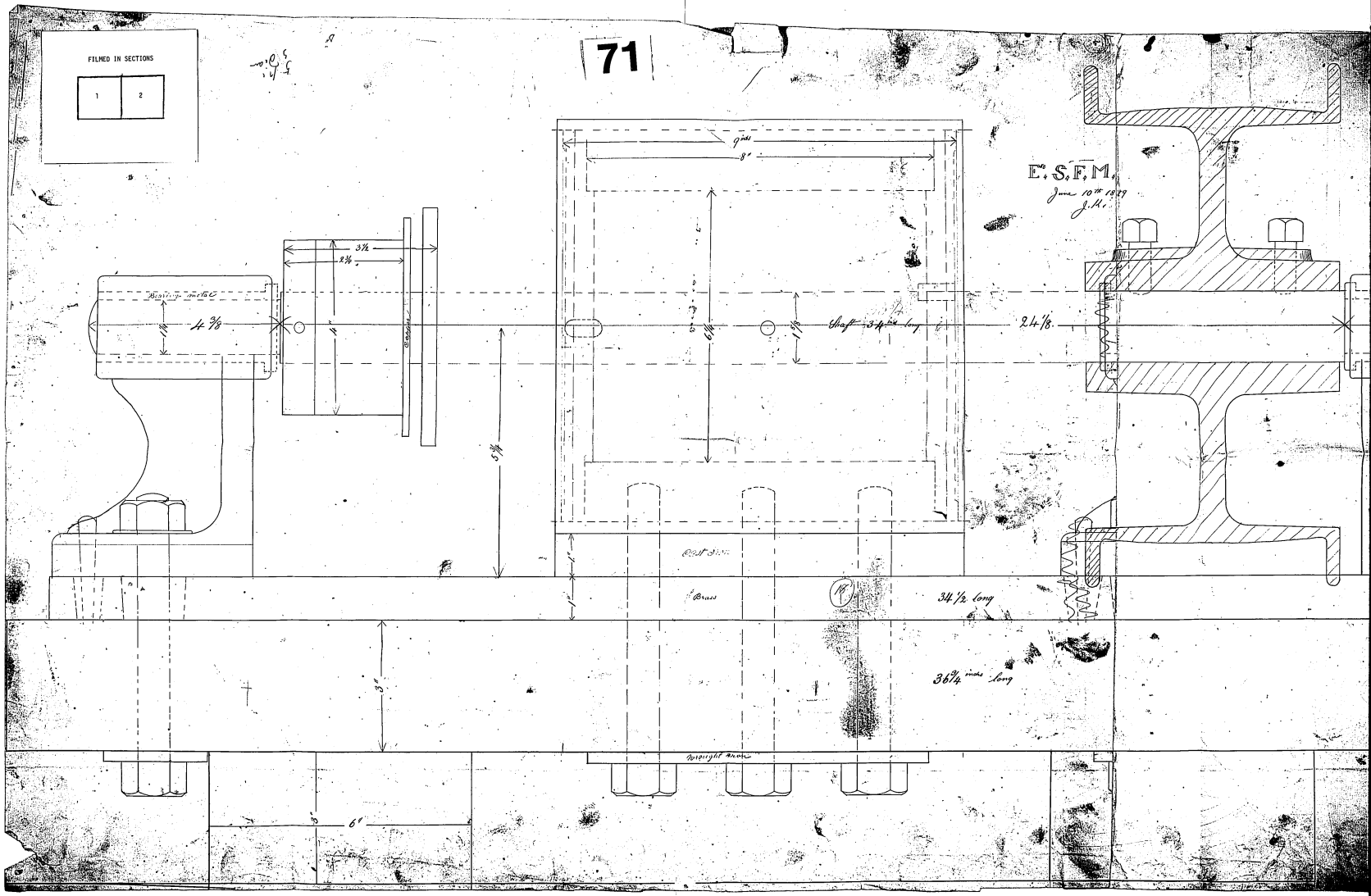

3.00
1.8
1.5
3.5
5.40
1.90
1.35
1.50

69


Edison's Dynamometer
June 1st 1877
J.H.
6" Diameter
10" "
3/8 Core print
flanges 1" high & 3/16 thick
Cast 2 of these flanges
Cast from ½ size
Core print 3/4
full size

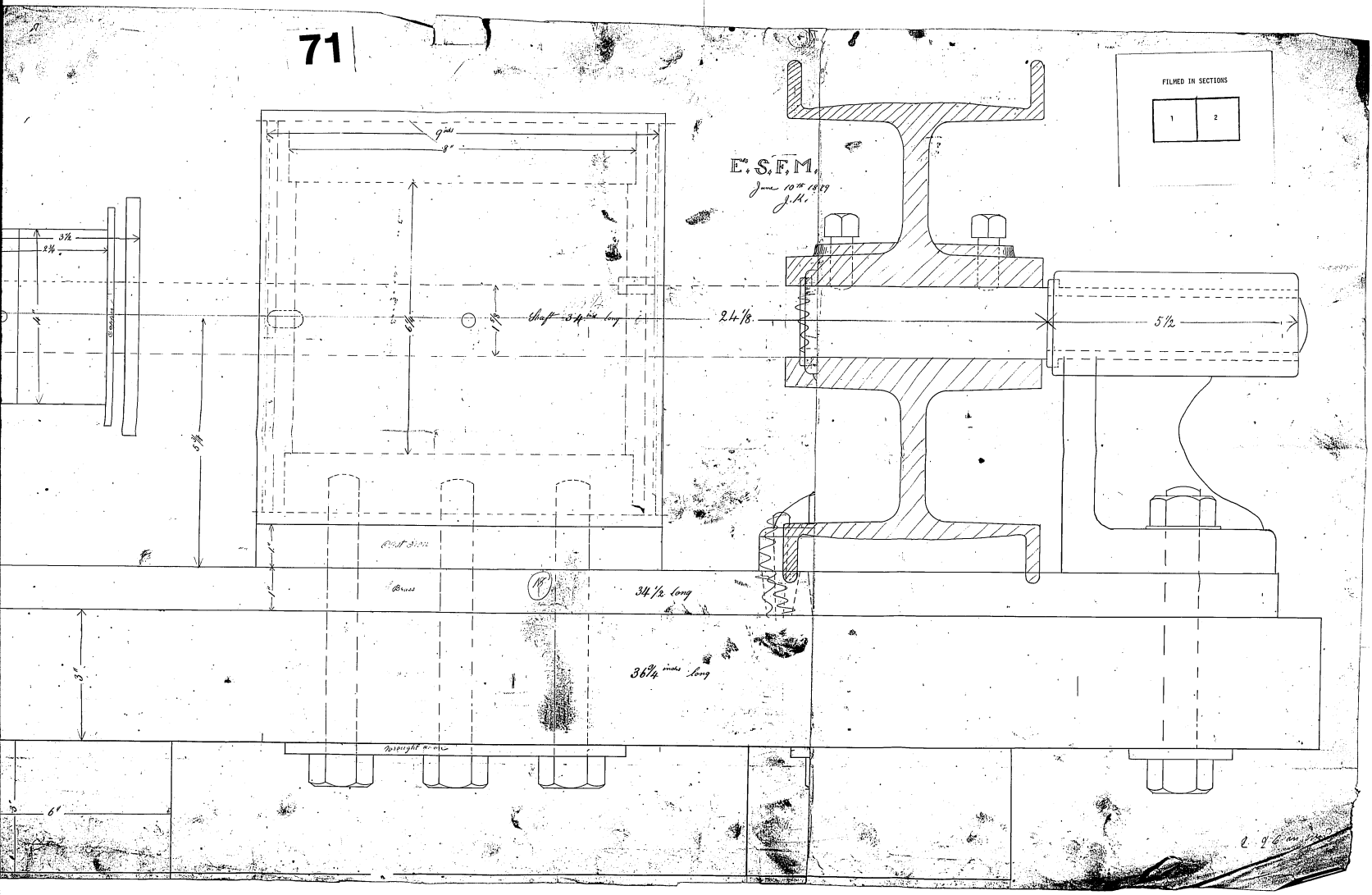

Stamping mill June 4th 1878.
Retaining Stamp guide
1½

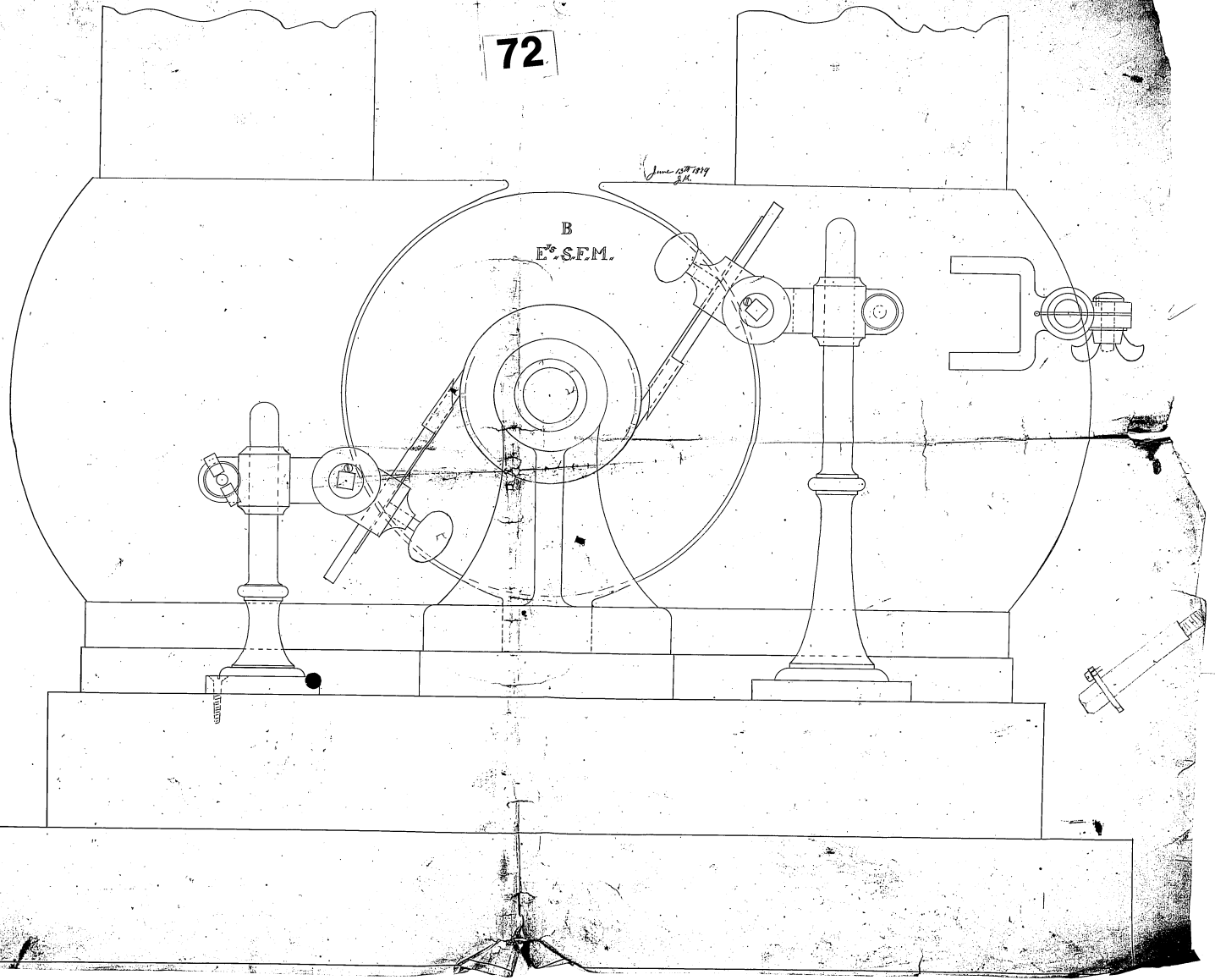
FILMED IN SECTIONS
1 2

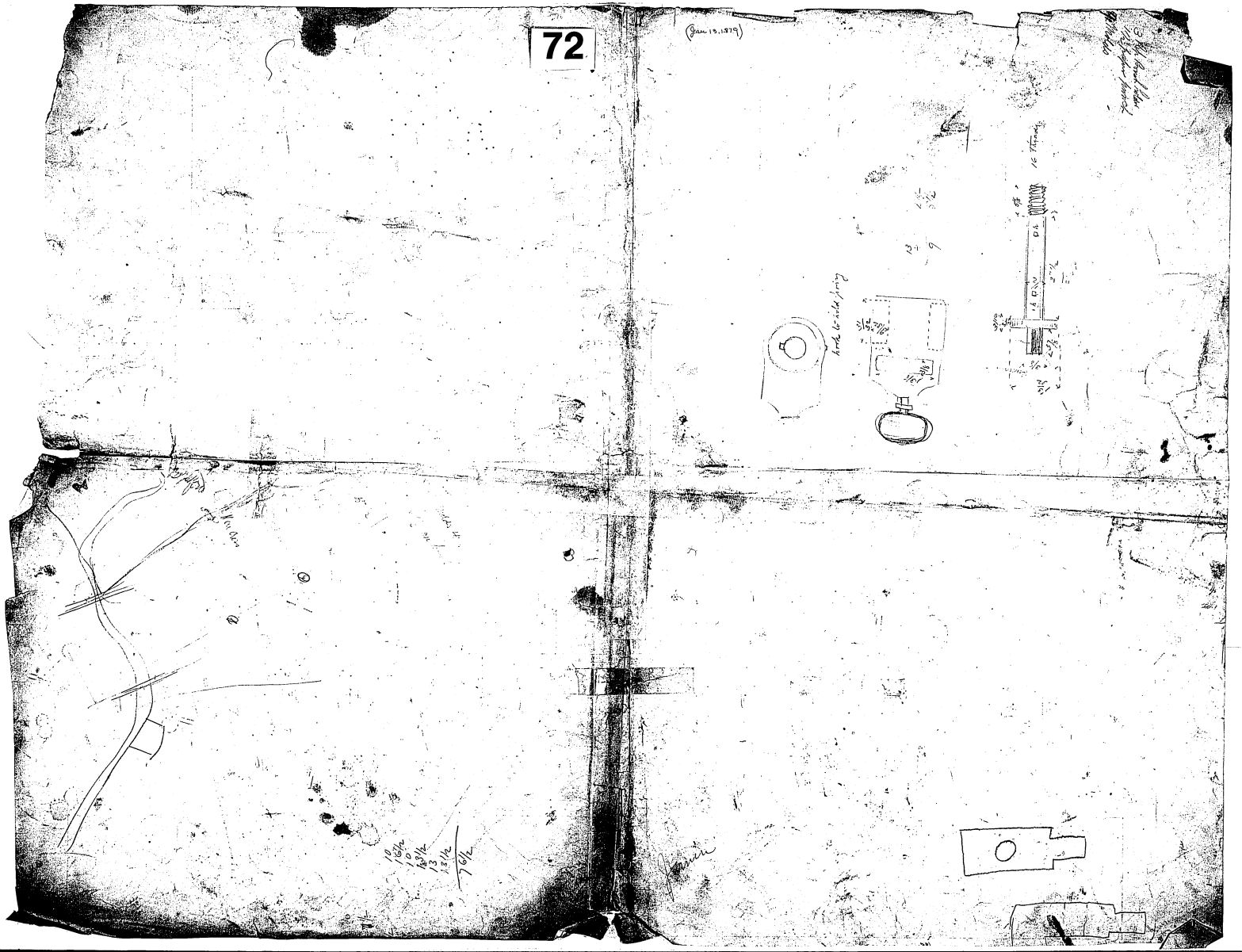


71

FILMED IN SECTIONS
1 2



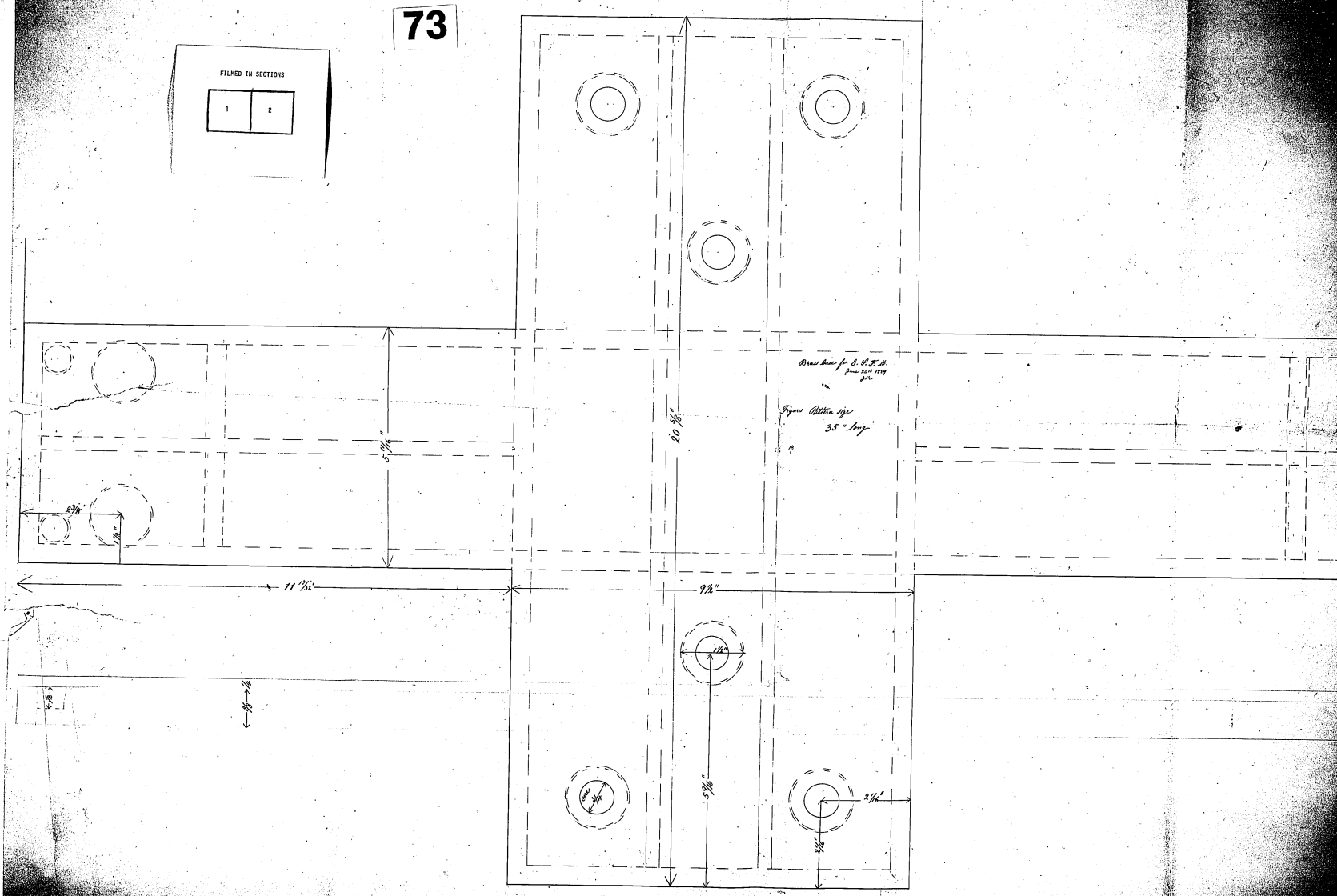

June 13th 1879
J.H.
B
E^r. S.F.M.


72
(Jan 13, 1979)

73

FILMED IN SECTIONS

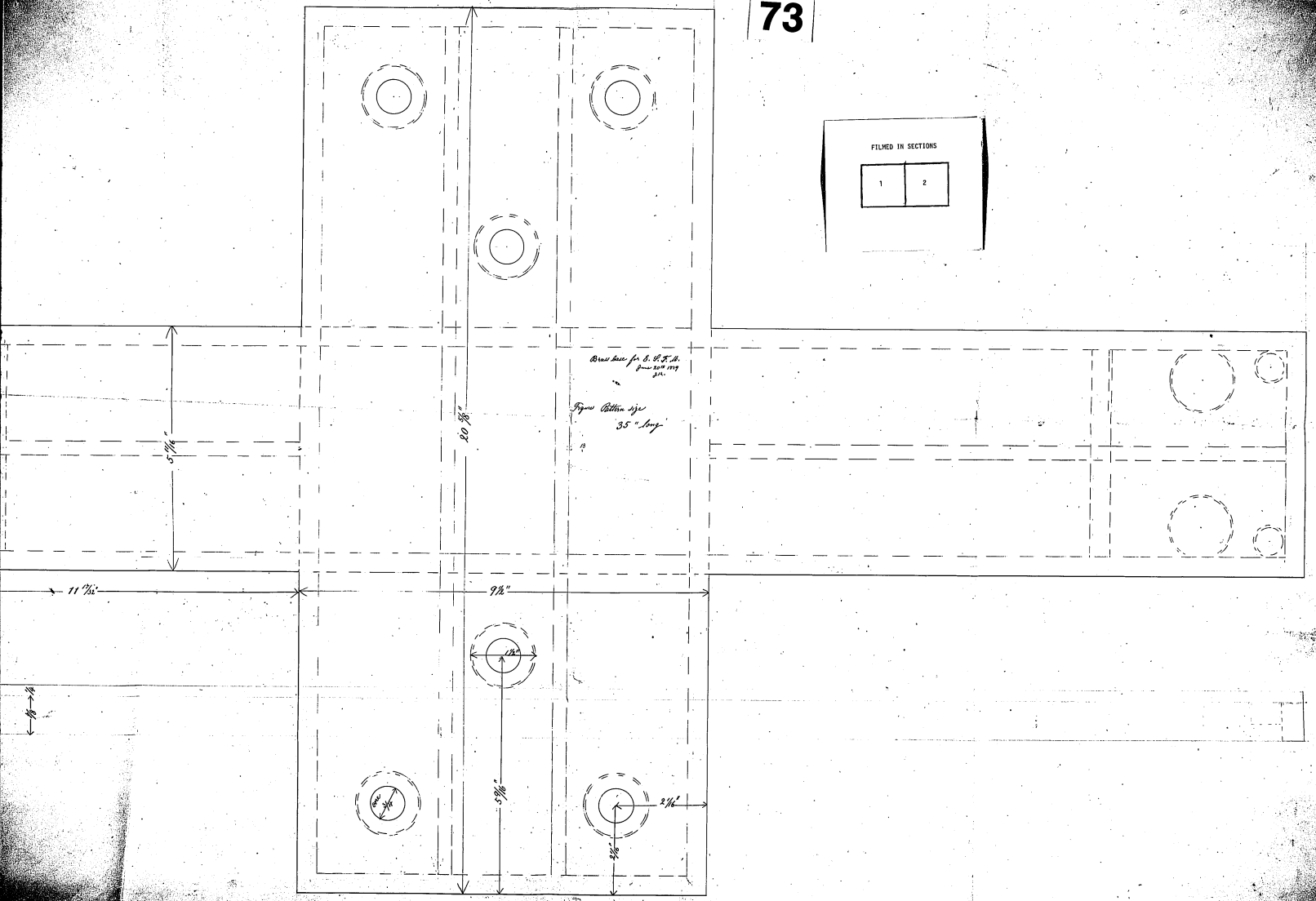
1 2

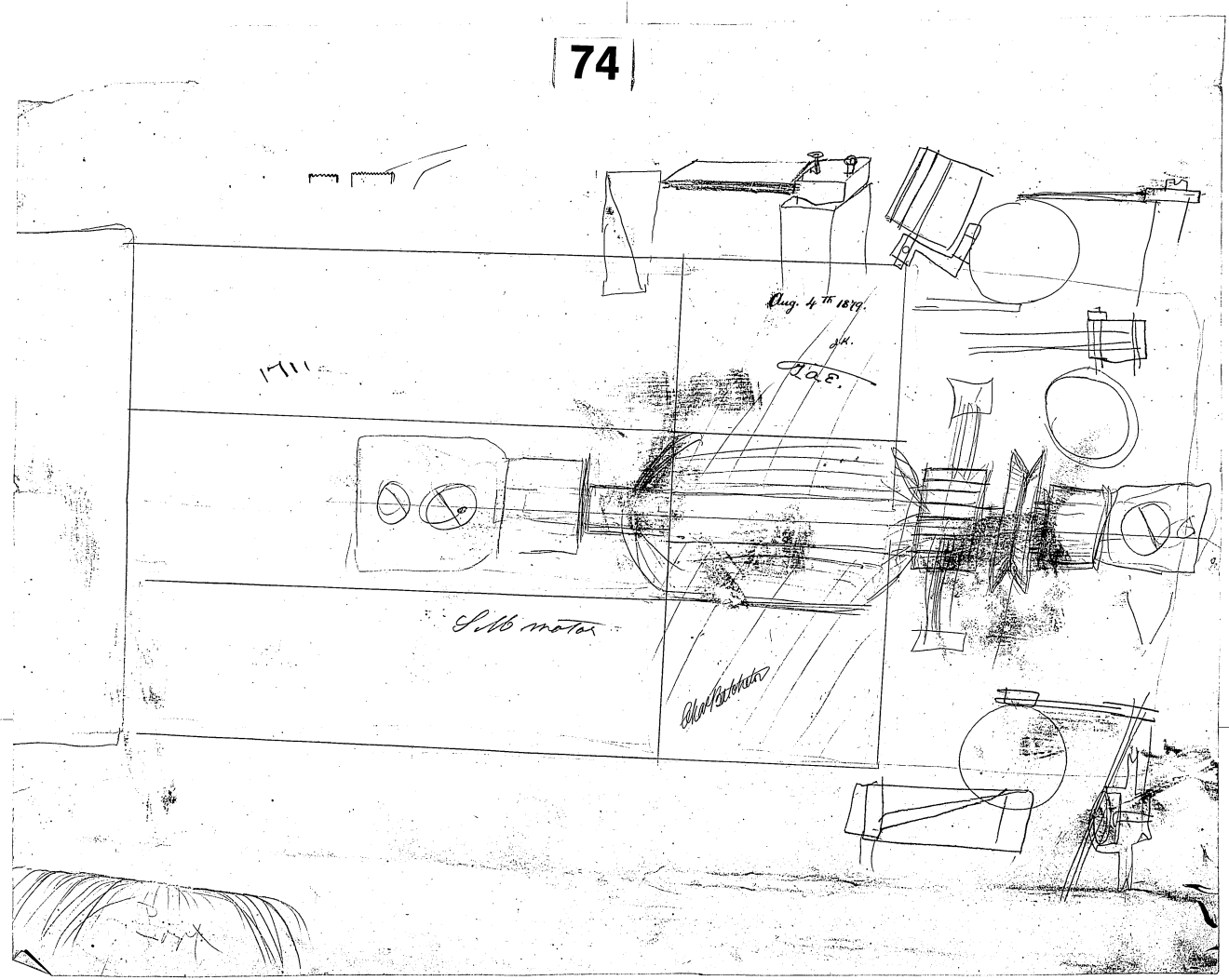


73

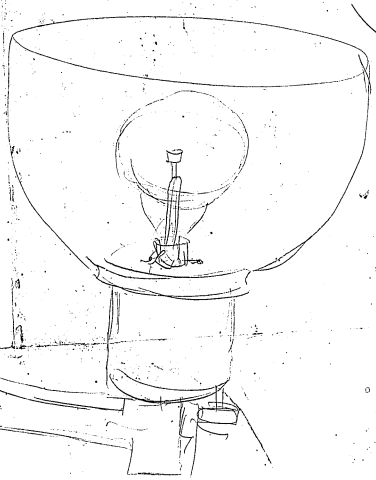
FILMED IN SECTIONS

1 2




Aug. 4th 1874.
Sub motor

74



4 of this 8 must have the disc for handle with cup finger button on

Dont forget the money If there is a package by express for me send it to house & leave on steps

Mr Kuesel

Will you put this Coil in place of the one in this base right away

Balcher

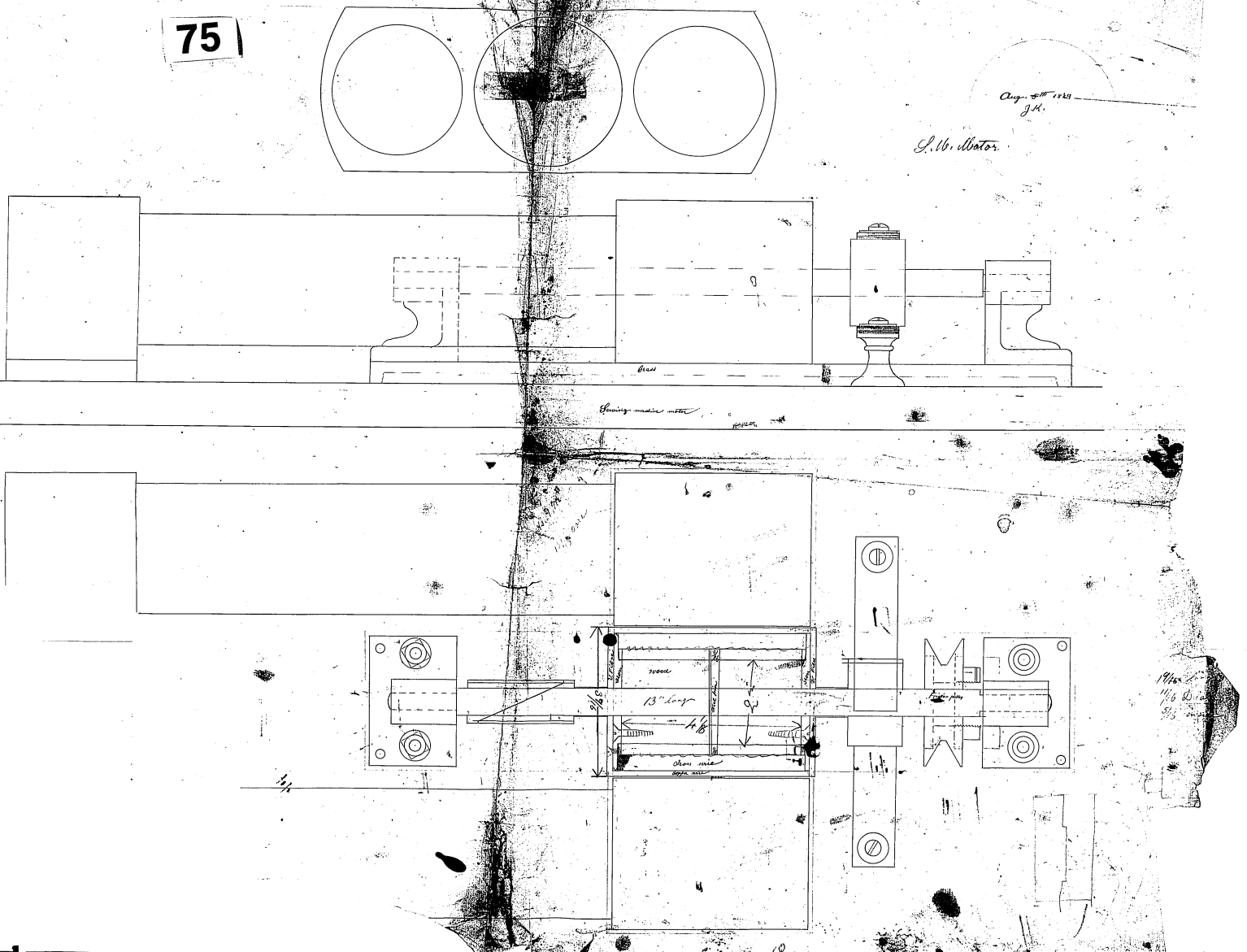
Order mahogany boxes + bases like these but with no hole in top.

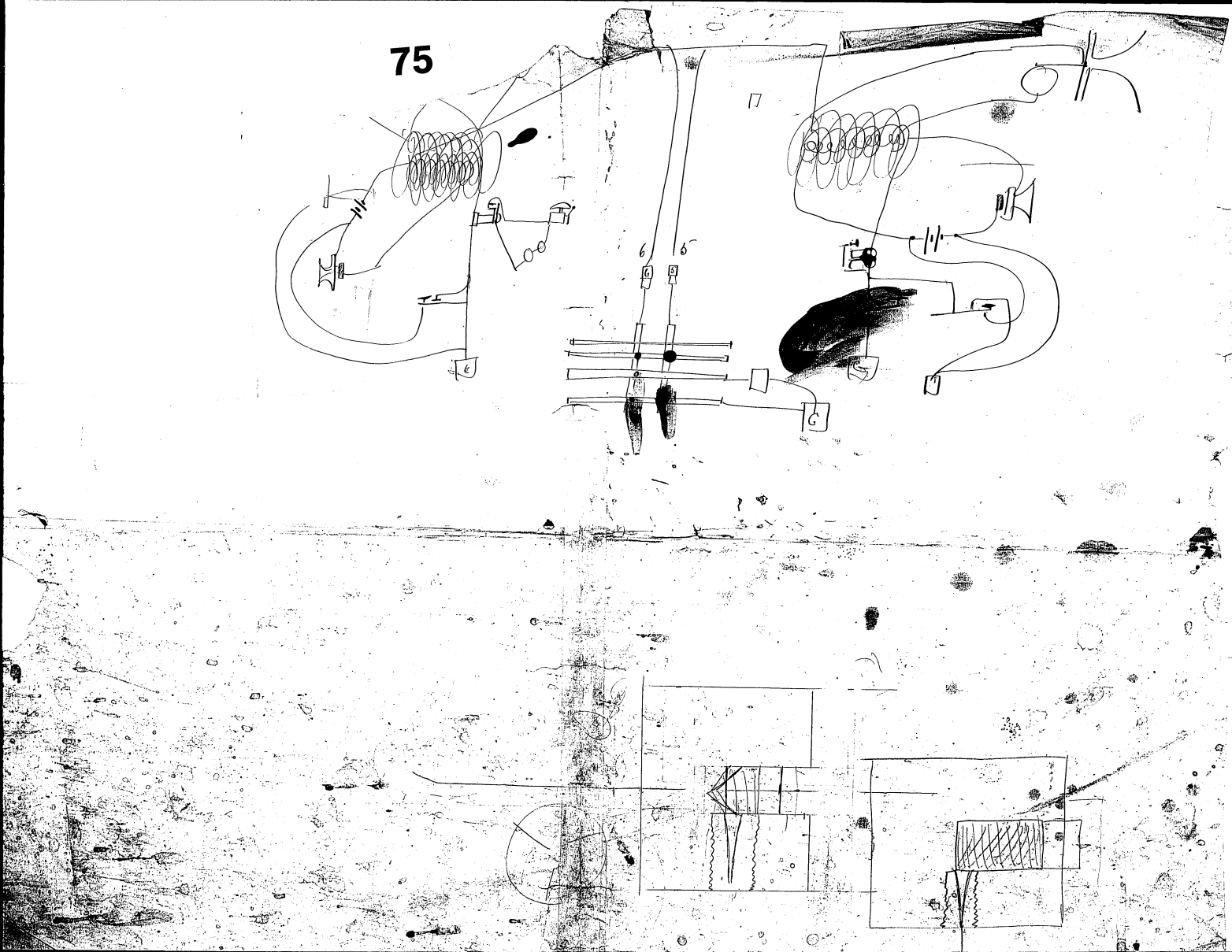
239/
Cat/21-1
Rec'd 5/21.

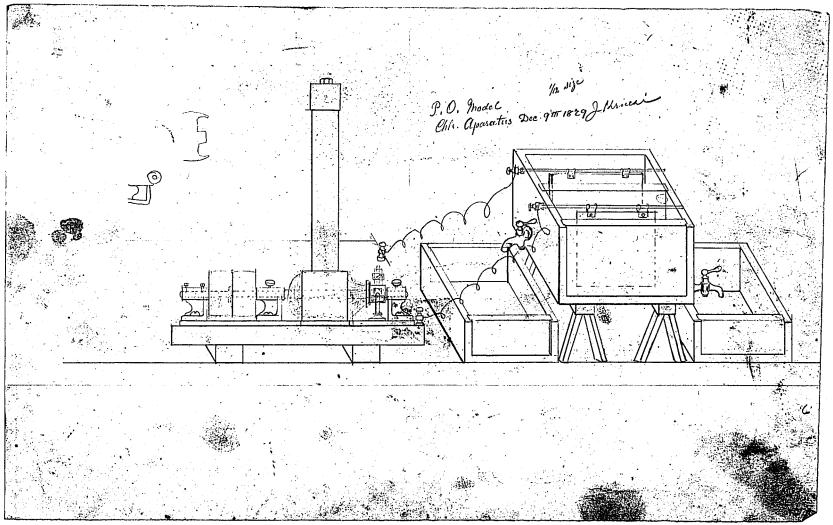
75

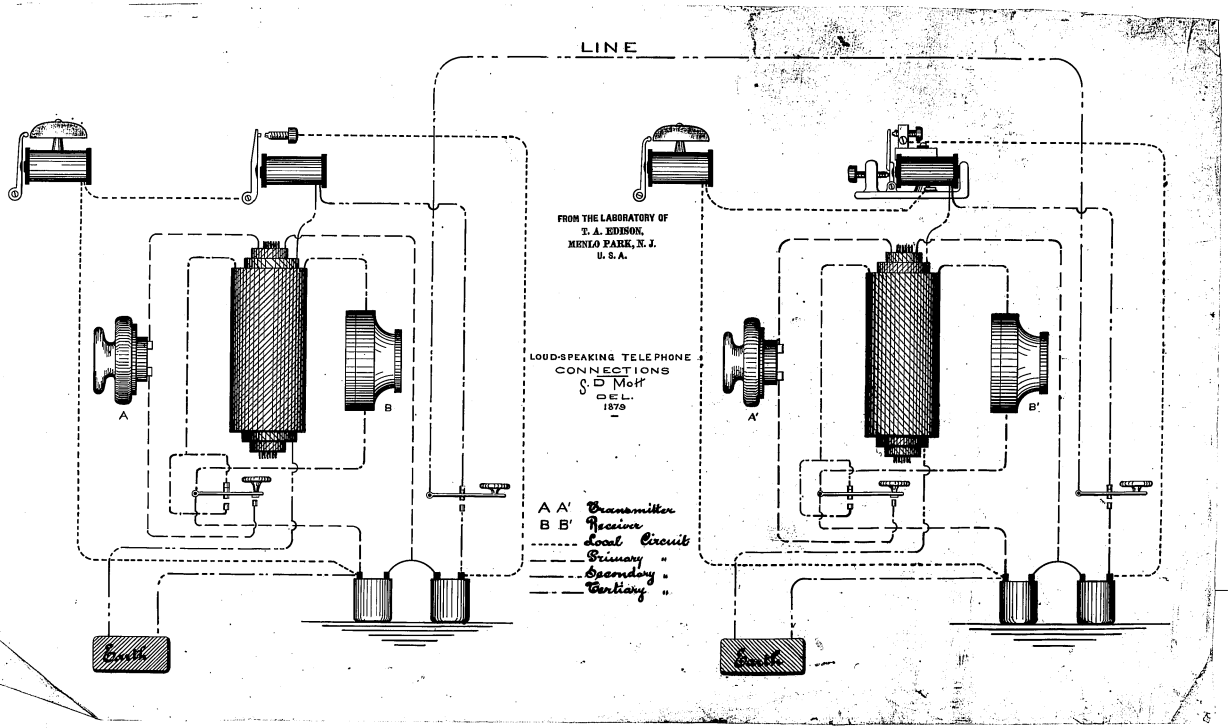
Aug. 4th 1879
J.H.

L.16. Motor

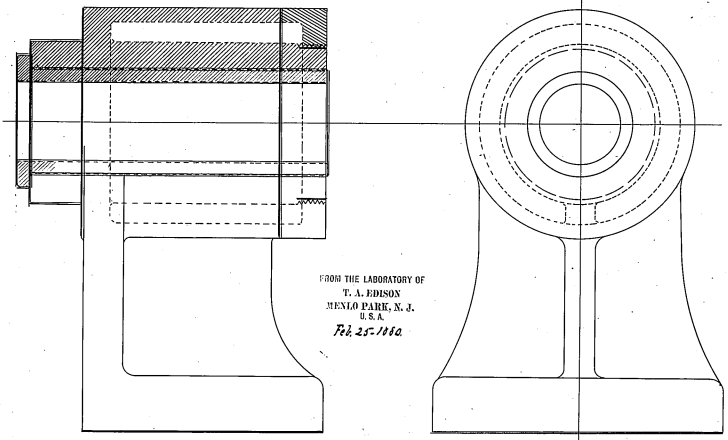




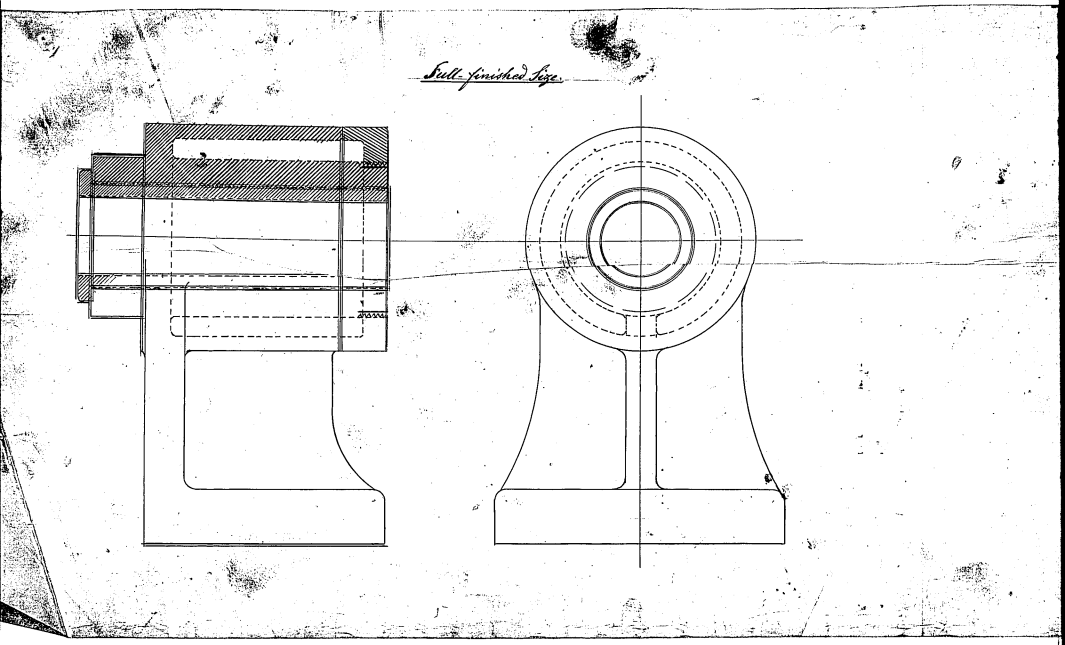

P. O. Model
Chir. Apparatus
Dec. 9th 1879

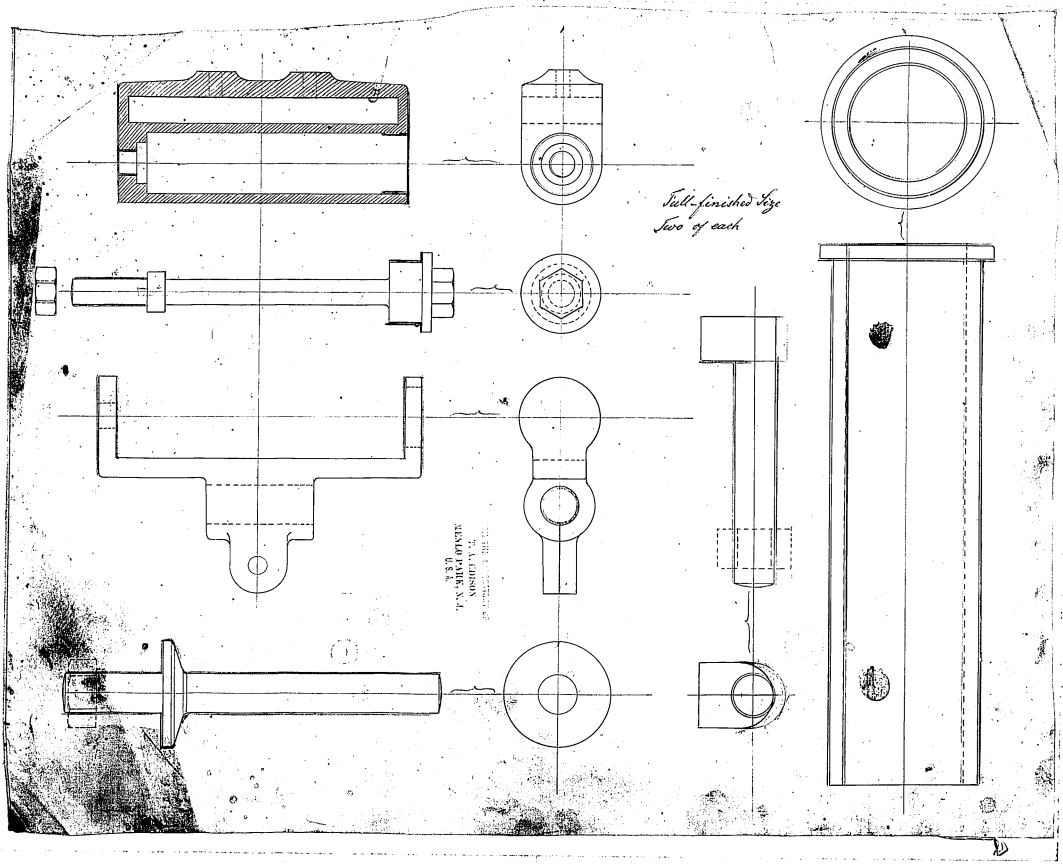

LINE
FROM THE LABORATORY OF
T. A. EDISON,
MENLO PARK, N. J.
U. S. A.
LOUD-SPEAKING TELEPHONE
CONNECTIONS
S D Mott
DEL.
1879
A
B
A'
B'
A A' Transmitter
B B' Receiver
Local Circuit
Primary "
Secondary "
Tertiary "
Earth
Earth

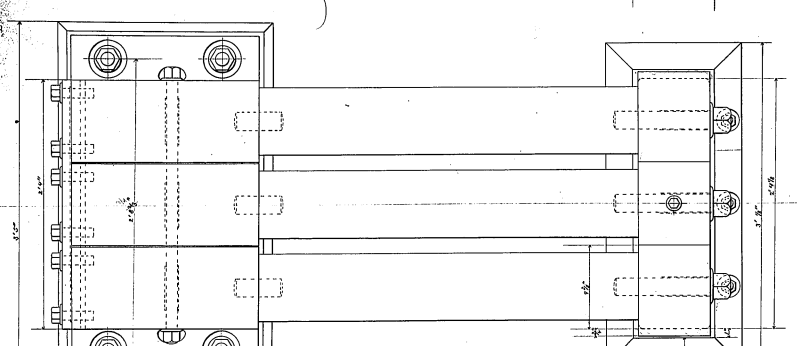
Full Finished Size

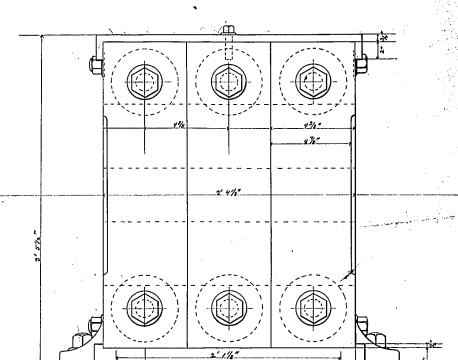


FROM THE LABORATORY OF
T. A. EDISON
MENLO PARK, N. J.
U. S. A.
Feb 25-1880


Full finished Size


Full-finished Legs
Two of each



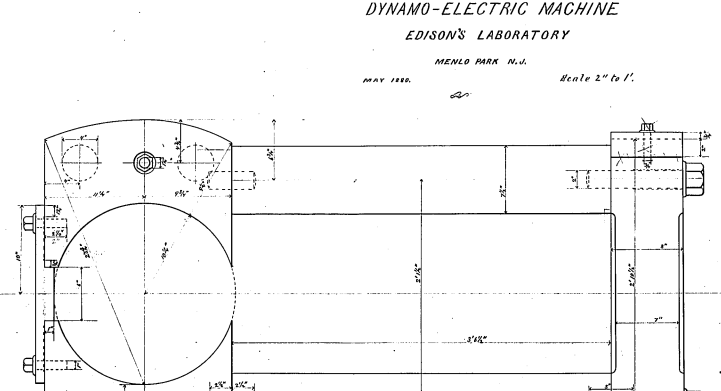


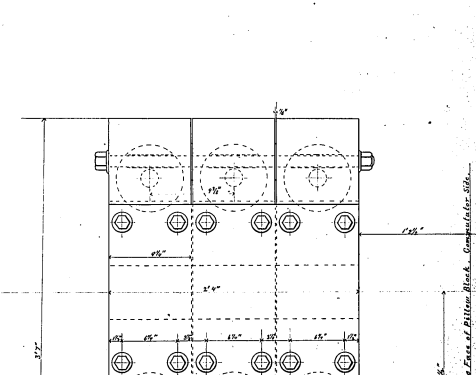
DYNAMO-ELECTRIC MACHINE

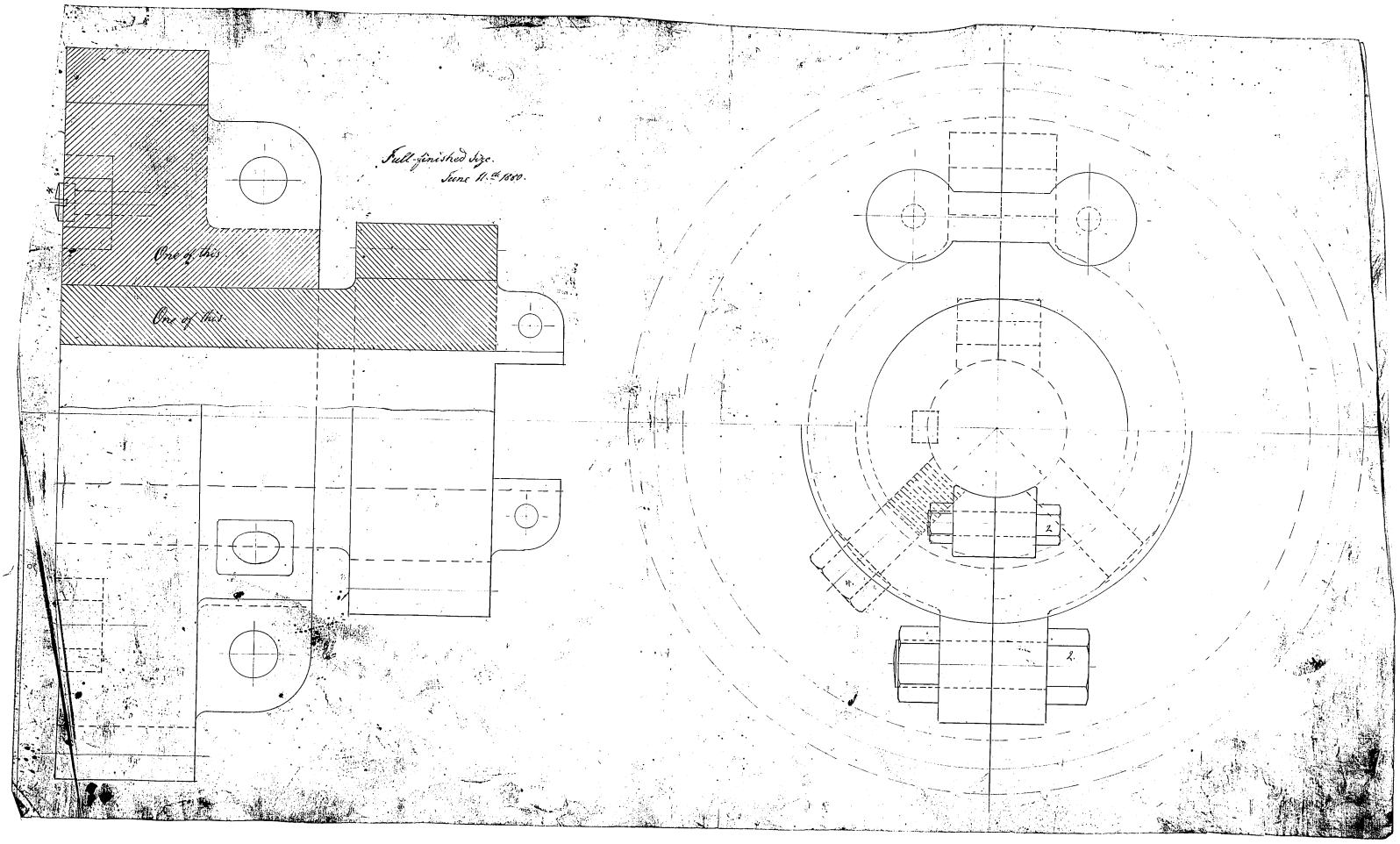
EDISON'S LABORATORY

MENLO PARK N.J.

MAY 1880. Scale 2" to 1'.



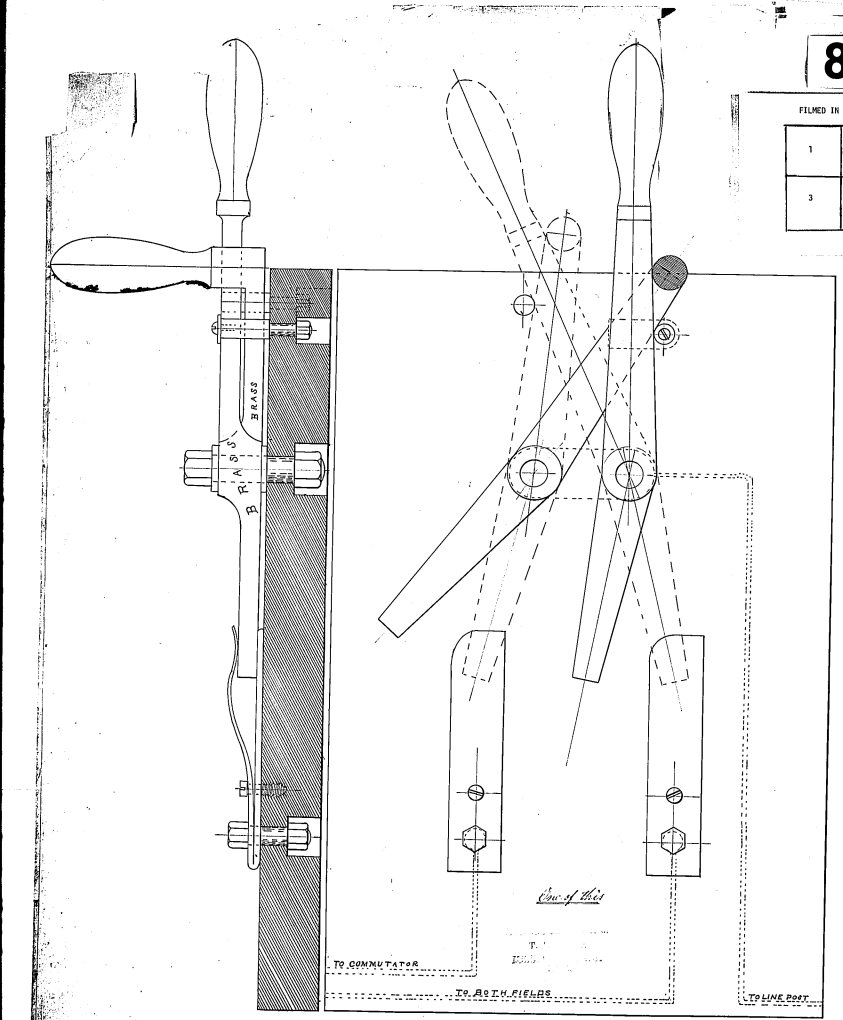


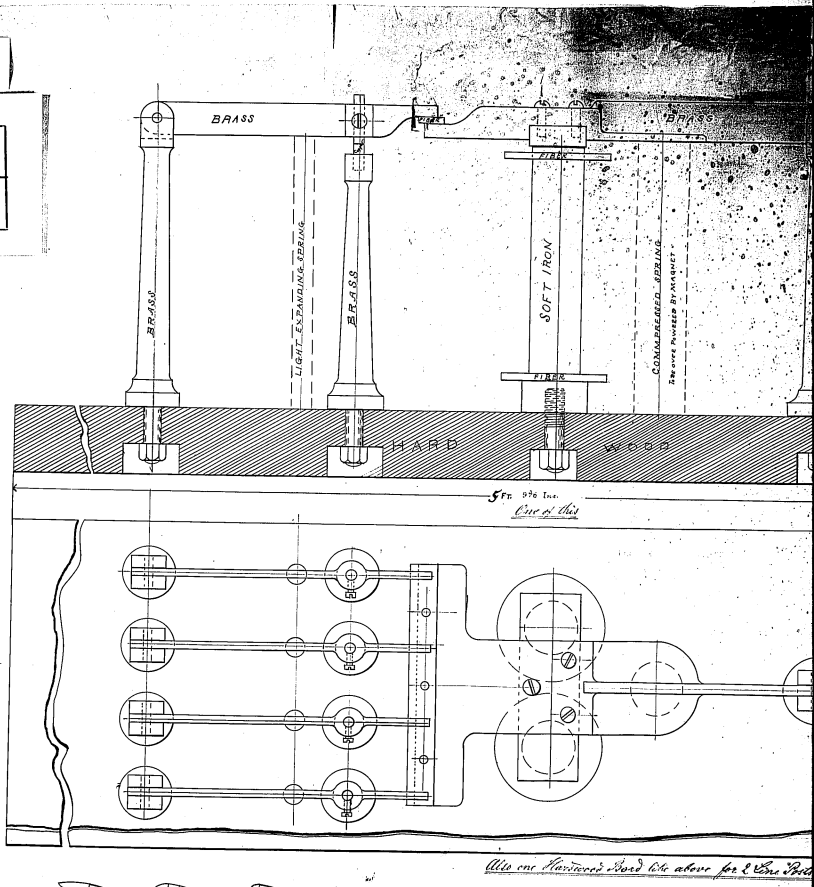

Full finished size.
June 11th 1860.
One of this.
One of this.

83

FILMED IN SECTIONS

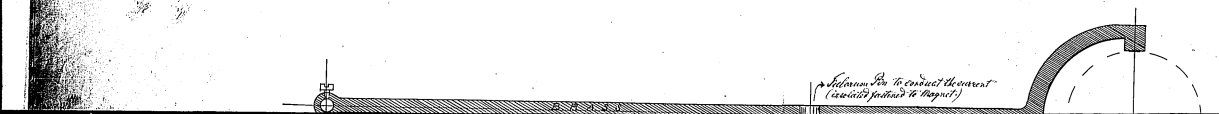
1	2
3	4

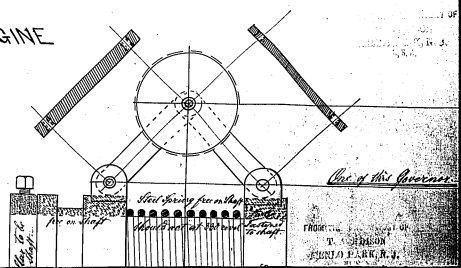




FIVE HORSE POWER
MAGNETO-ELECTRIC ENGINE
FULL SIZE

EDISON'S LABORATORY
MENLO PARK N.J.
NOV. 8TH 1880

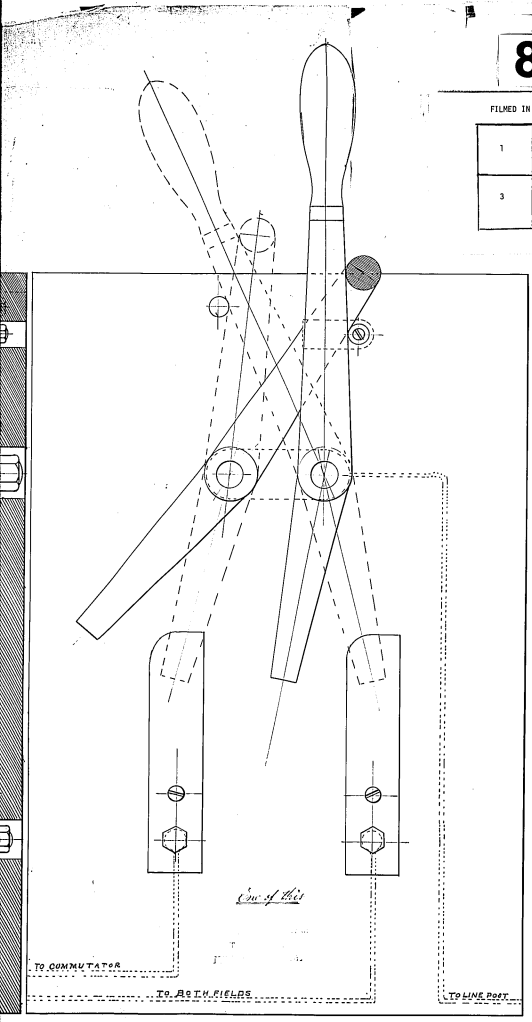


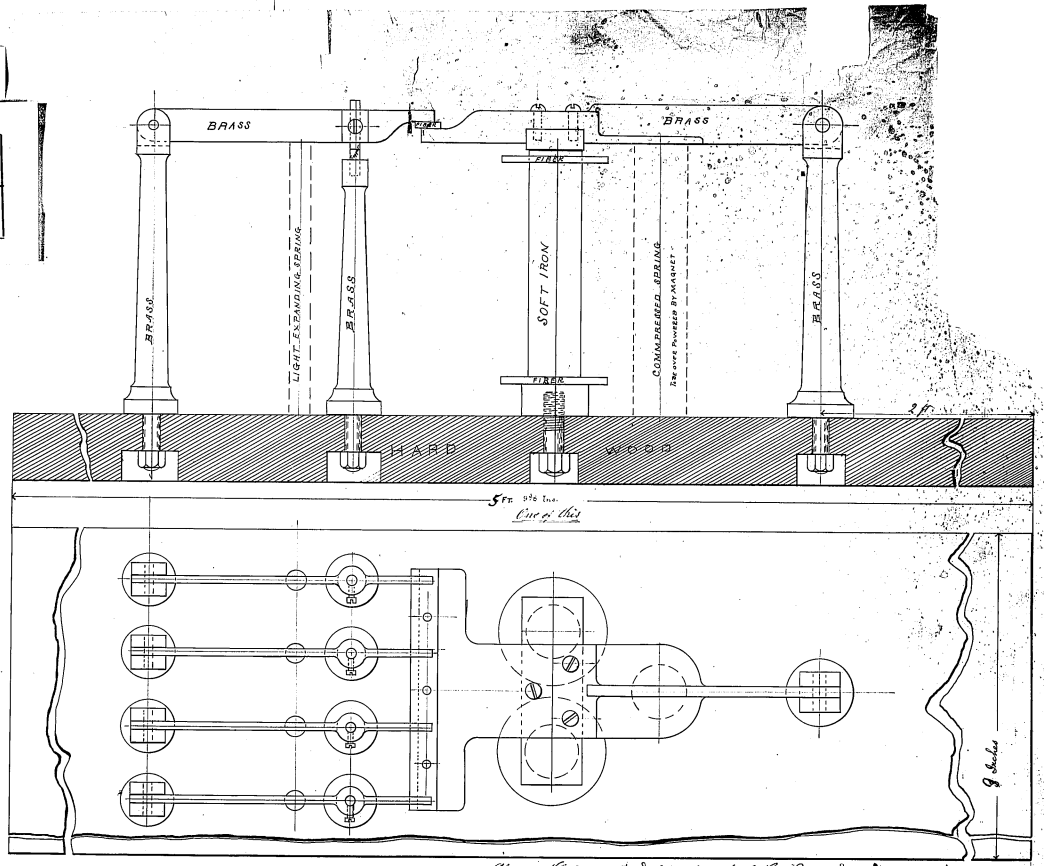


83

FILMED IN SECTIONS

1	2
3	4





Also one Hardwood Board like above for 2 Line Rods, indicated in general drawing.

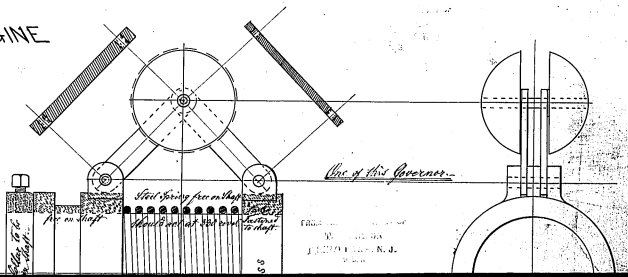
FIVE HORSE POWER

MAGNE-TO-ELECTRIC ENGINE

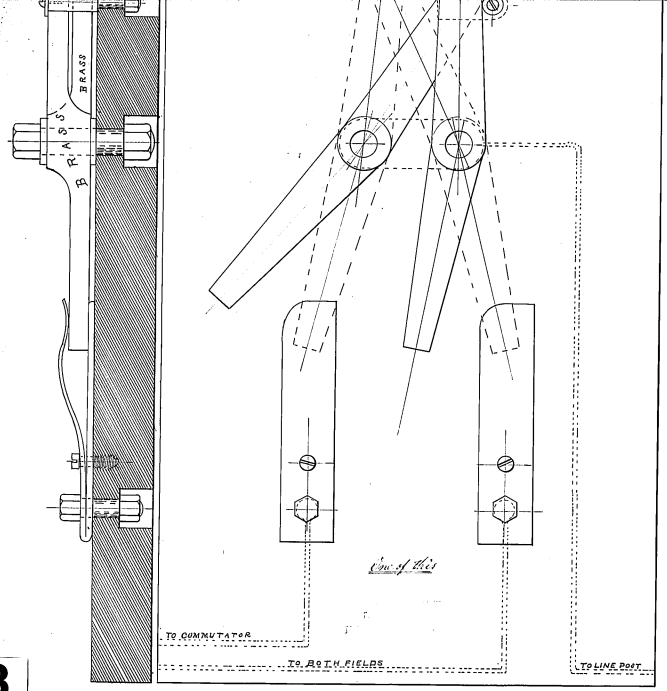
FULL SIZE

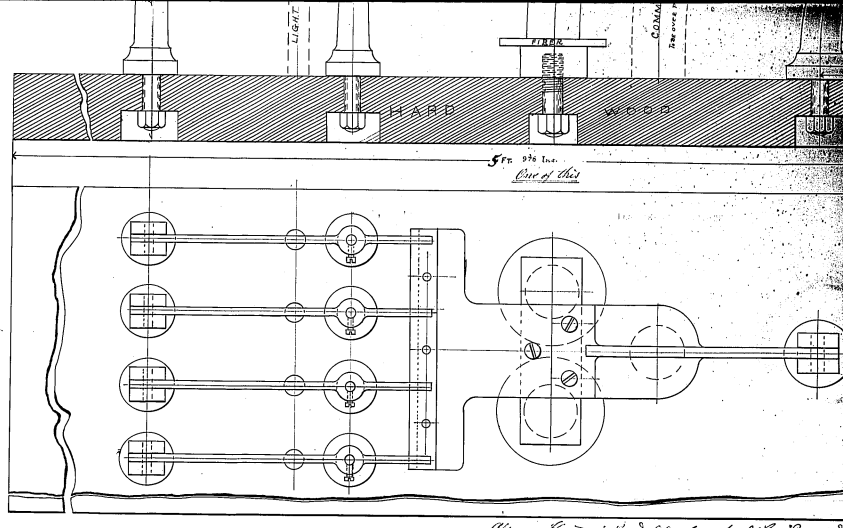
EDISON'S LABORATORY
MENLO PARK N.J.
Nov. 8TH 1880

444



Platinum Pin to conduct the current (carried to and from Magnet)





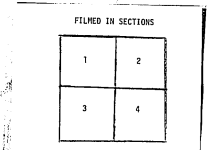
FIVE HORSE POWER MAGNETO-ELECTRIC ENGINE

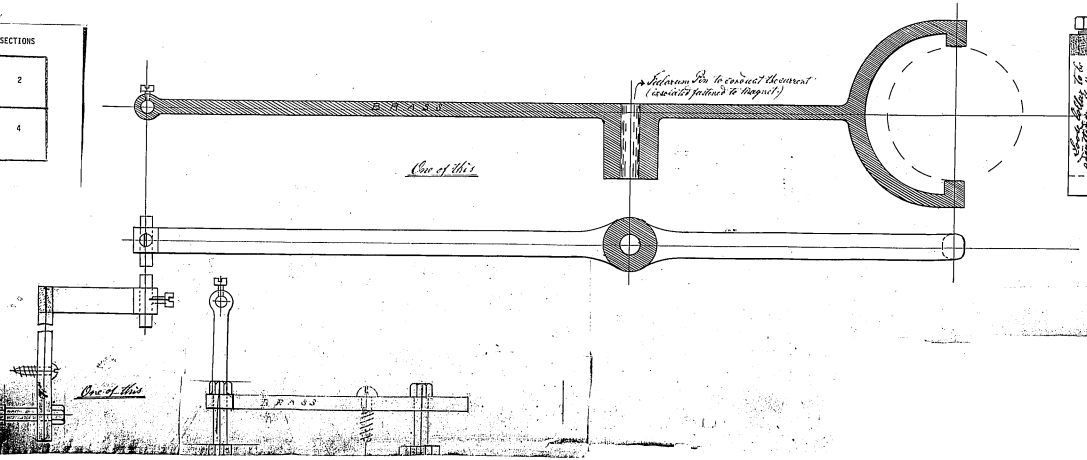
FULL SIZE

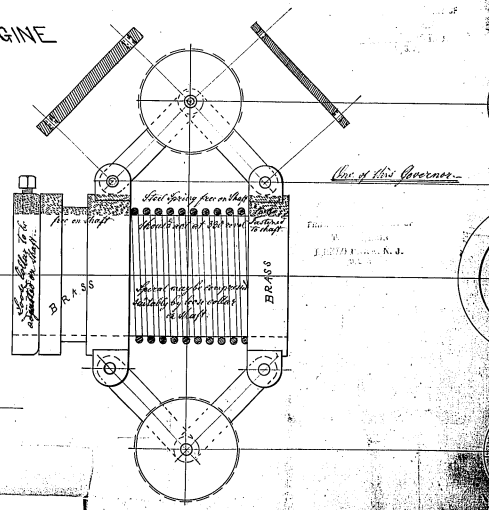
EDISON'S LABORATORY
MENLO PARK N.J.
Nov. 8TH 1880

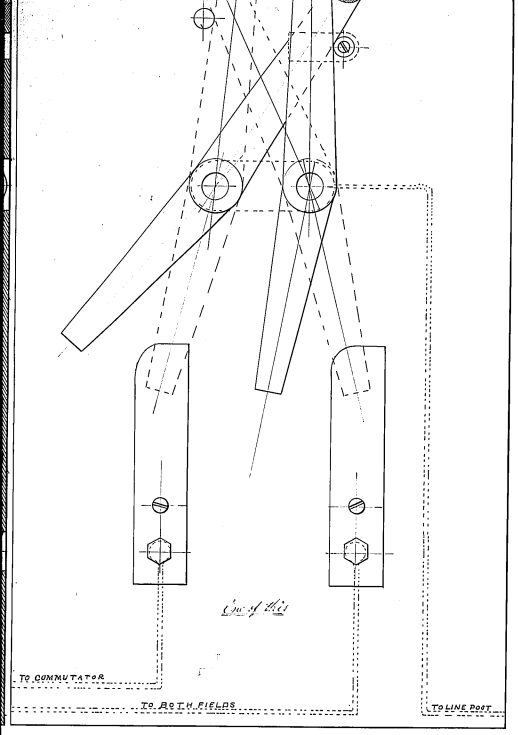
83

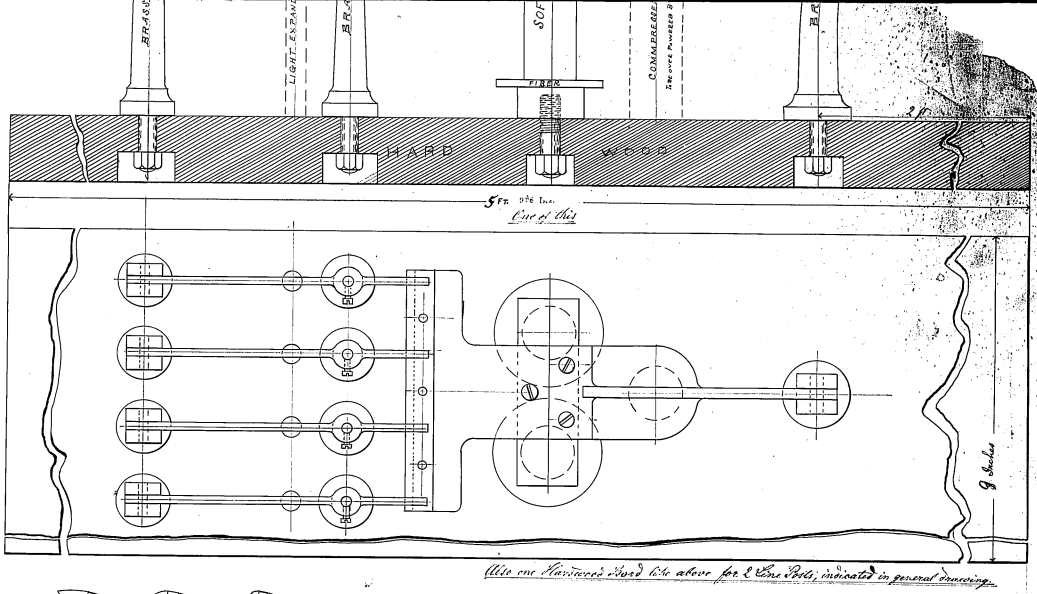
FILMED IN SECTIONS





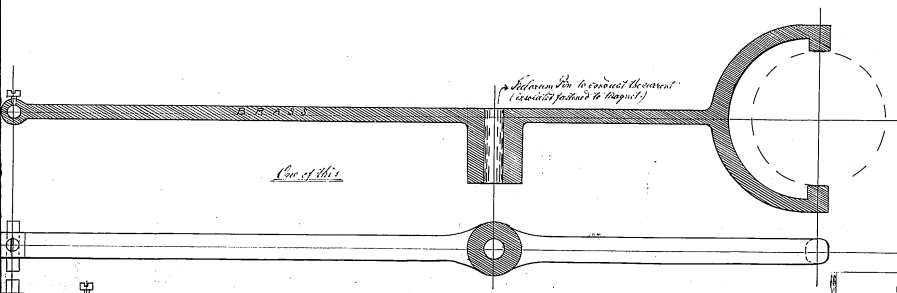


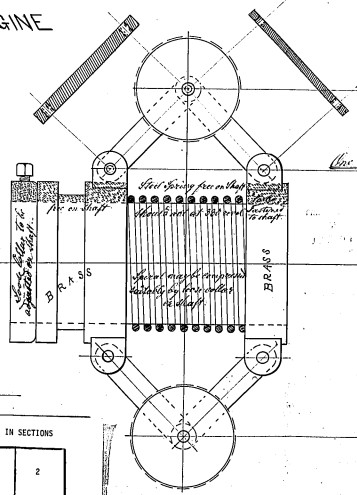


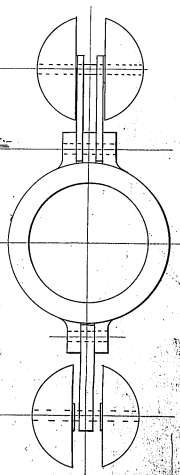


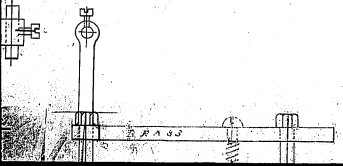
FIVE HORSE POWER
MAGNETO-ELECTRIC ENGINE
FULL SIZE

EDISON'S LABORATORY
MENLO PARK N.J.
NOV. 8TH 1880







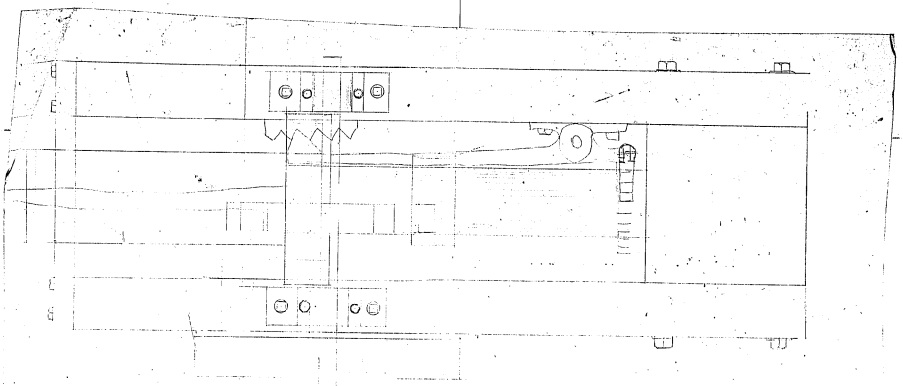


FILMED IN SECTIONS

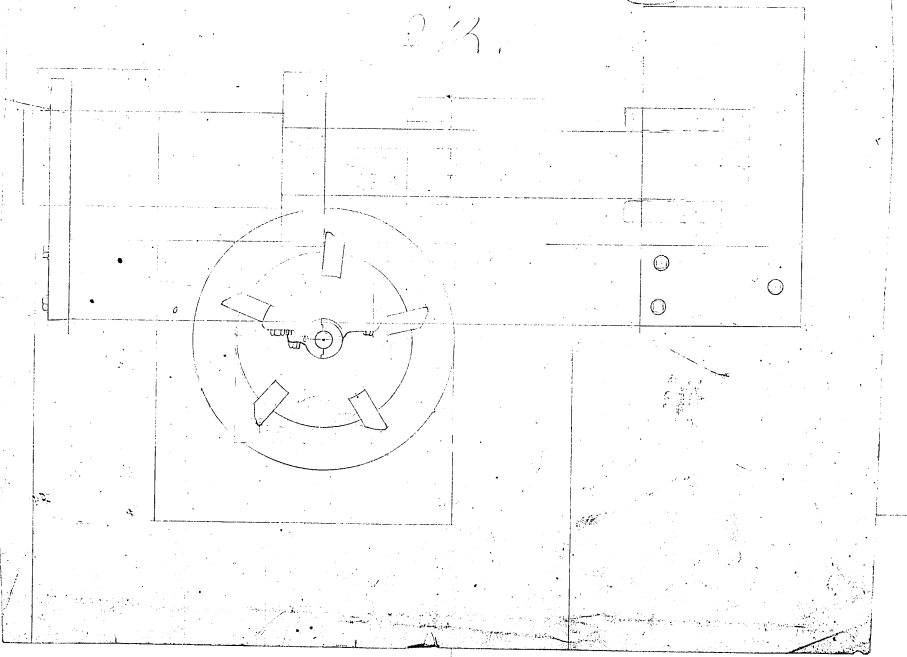
1	2
3	4

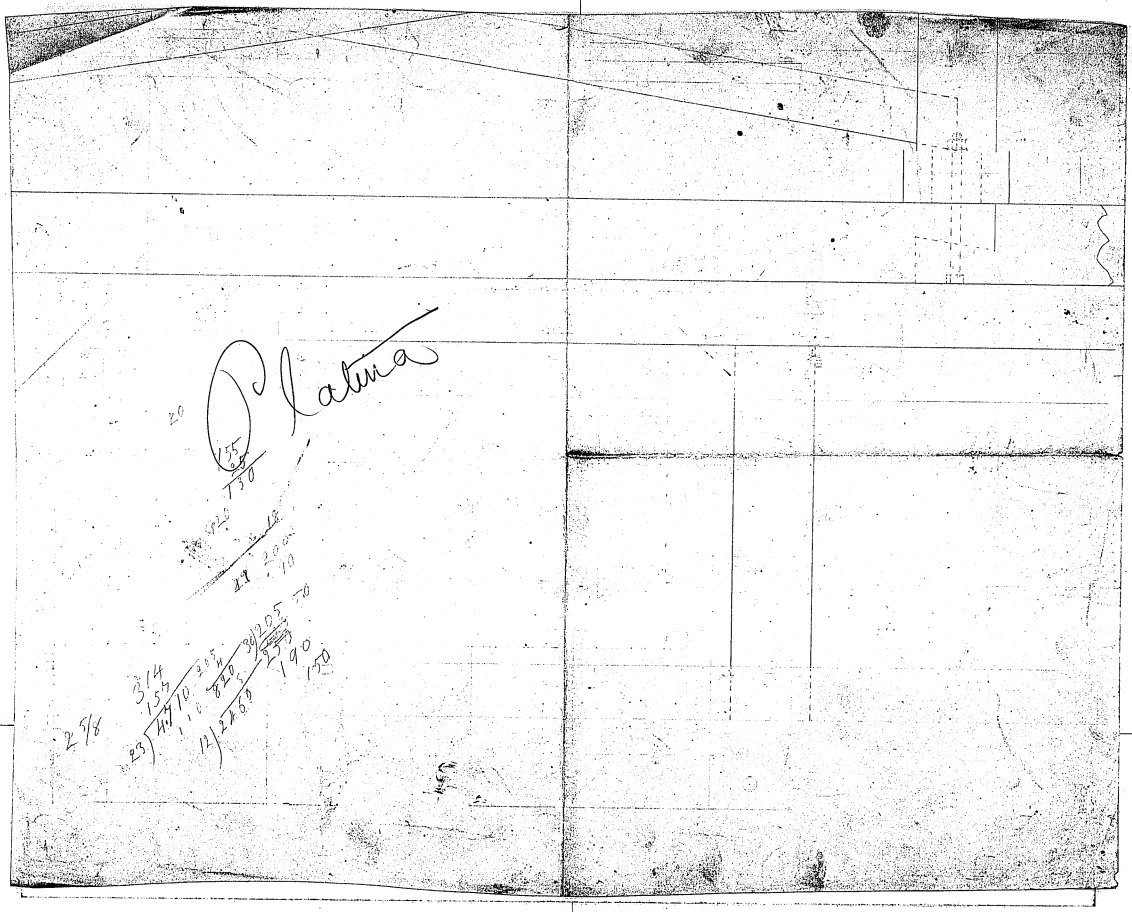
MENLO PARK MACHINE SHOP DRAWINGS, UNDATED

(Reduction Ratio = 18:1)

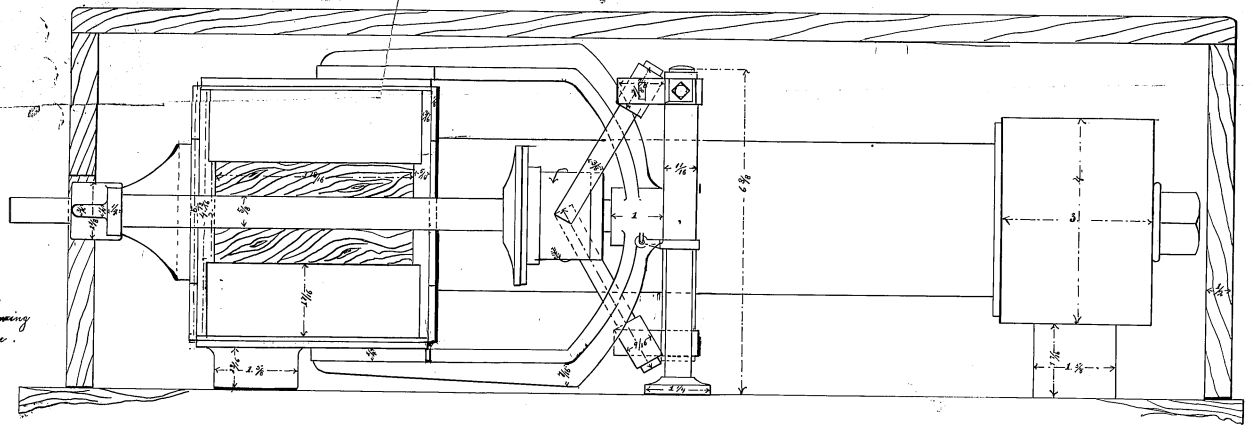


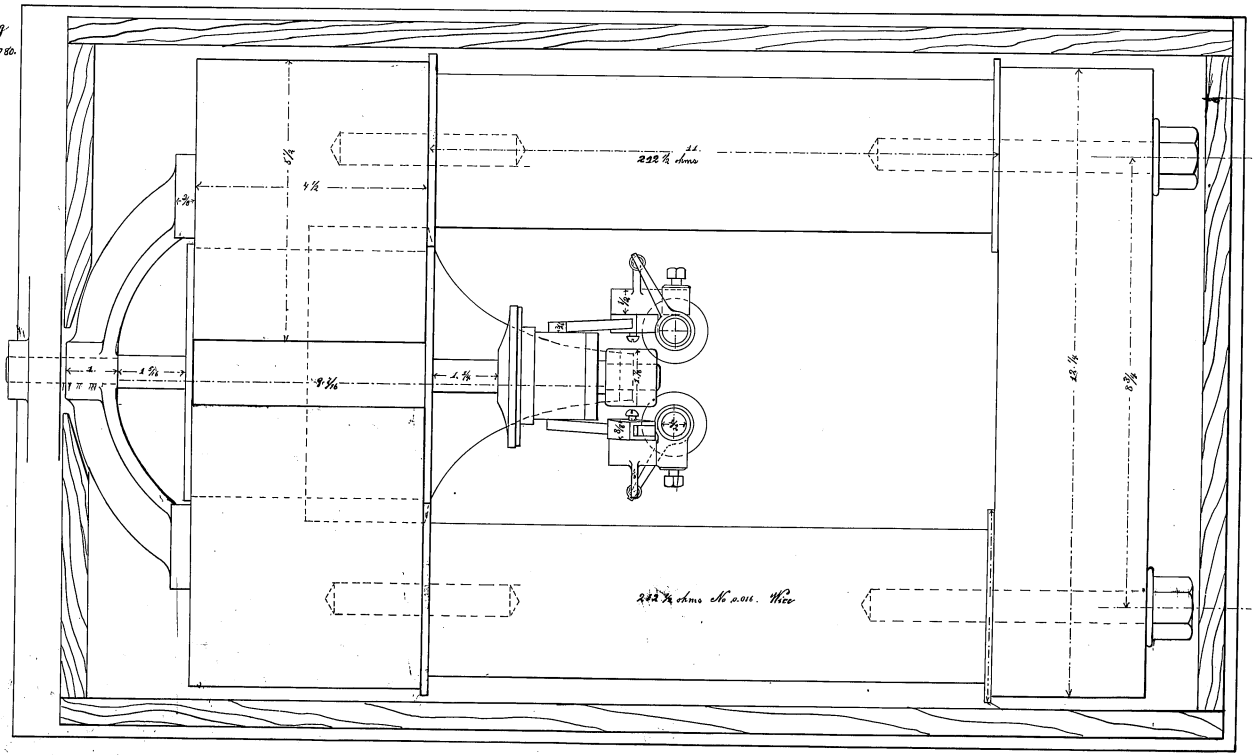
84

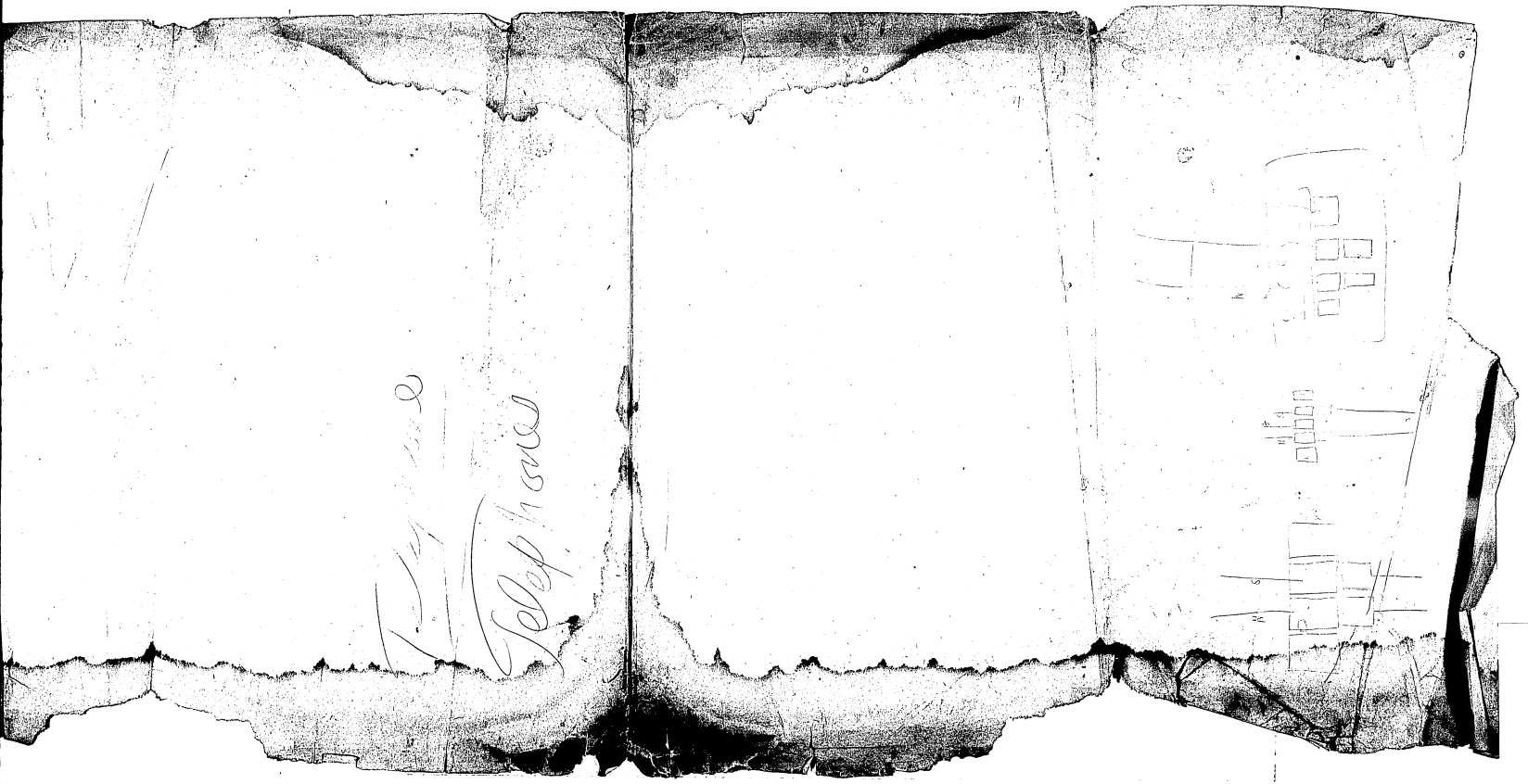


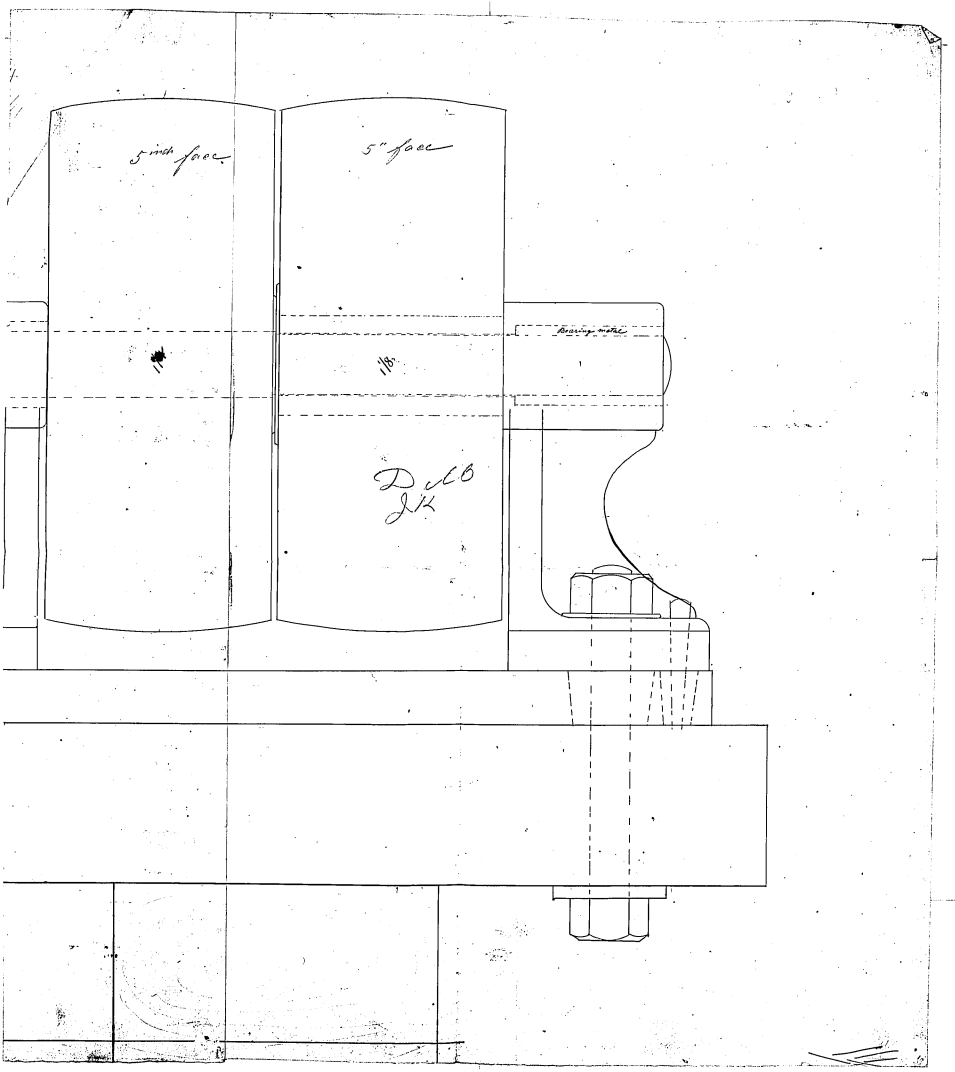


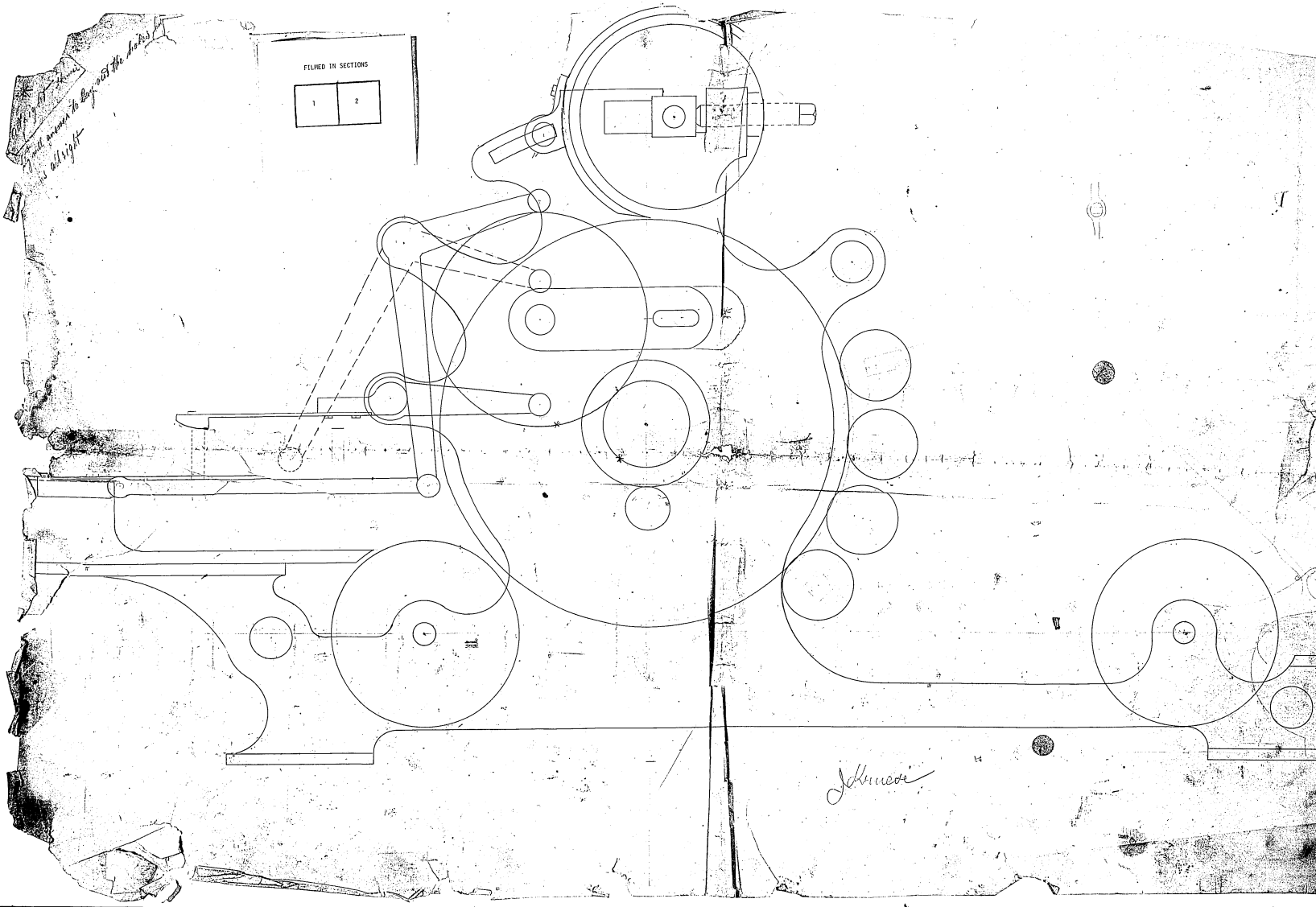
Commutator cut into 9. breaks.
Armature into 18 spaces. leaving
.050 standing between each space.
Winds with No 25 B.W.G.
into two layers
Making .050 Two thicknesses
linen .005. each. Mica .005.
German silver wire for binding
.010 Space .003 Total space .050.

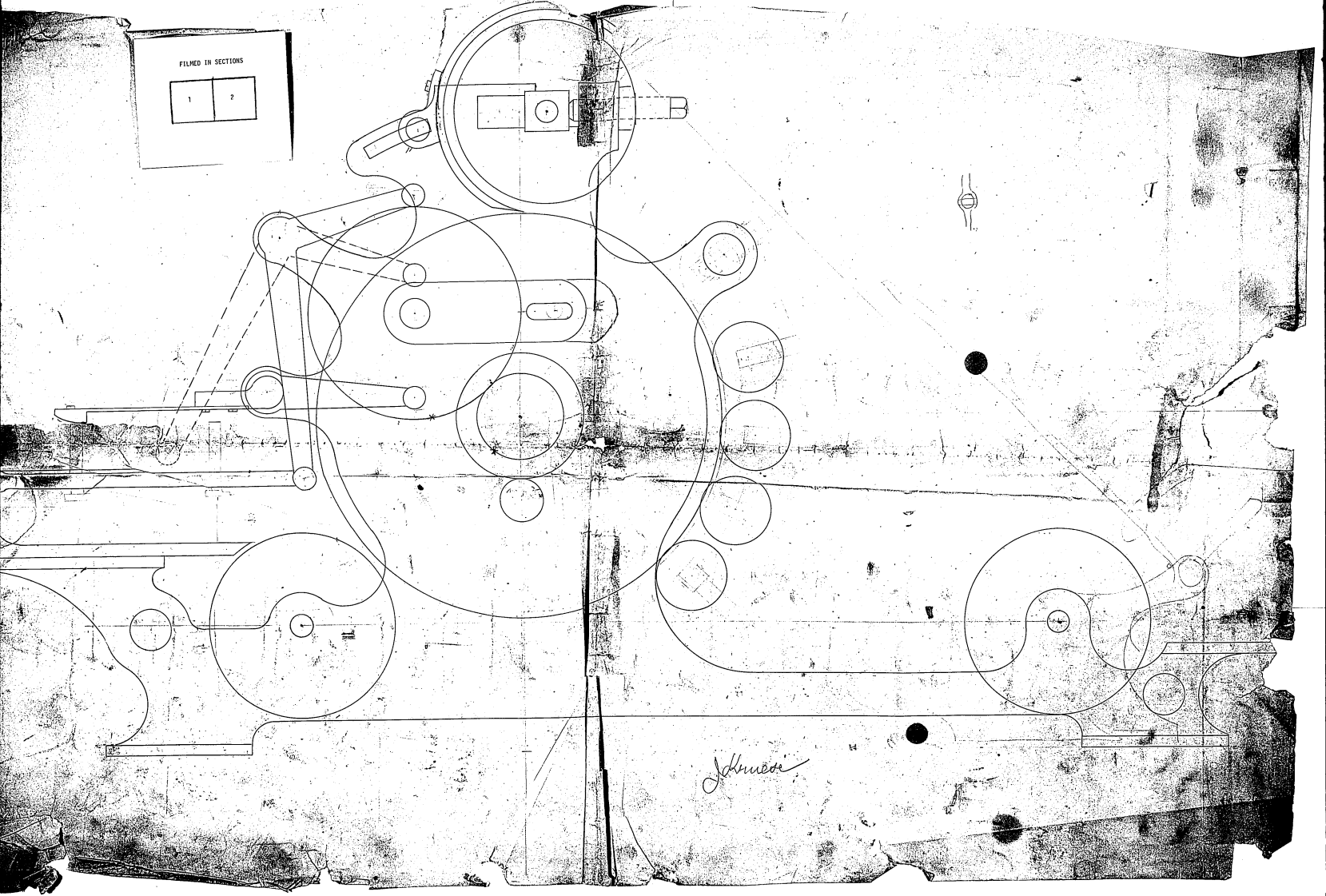




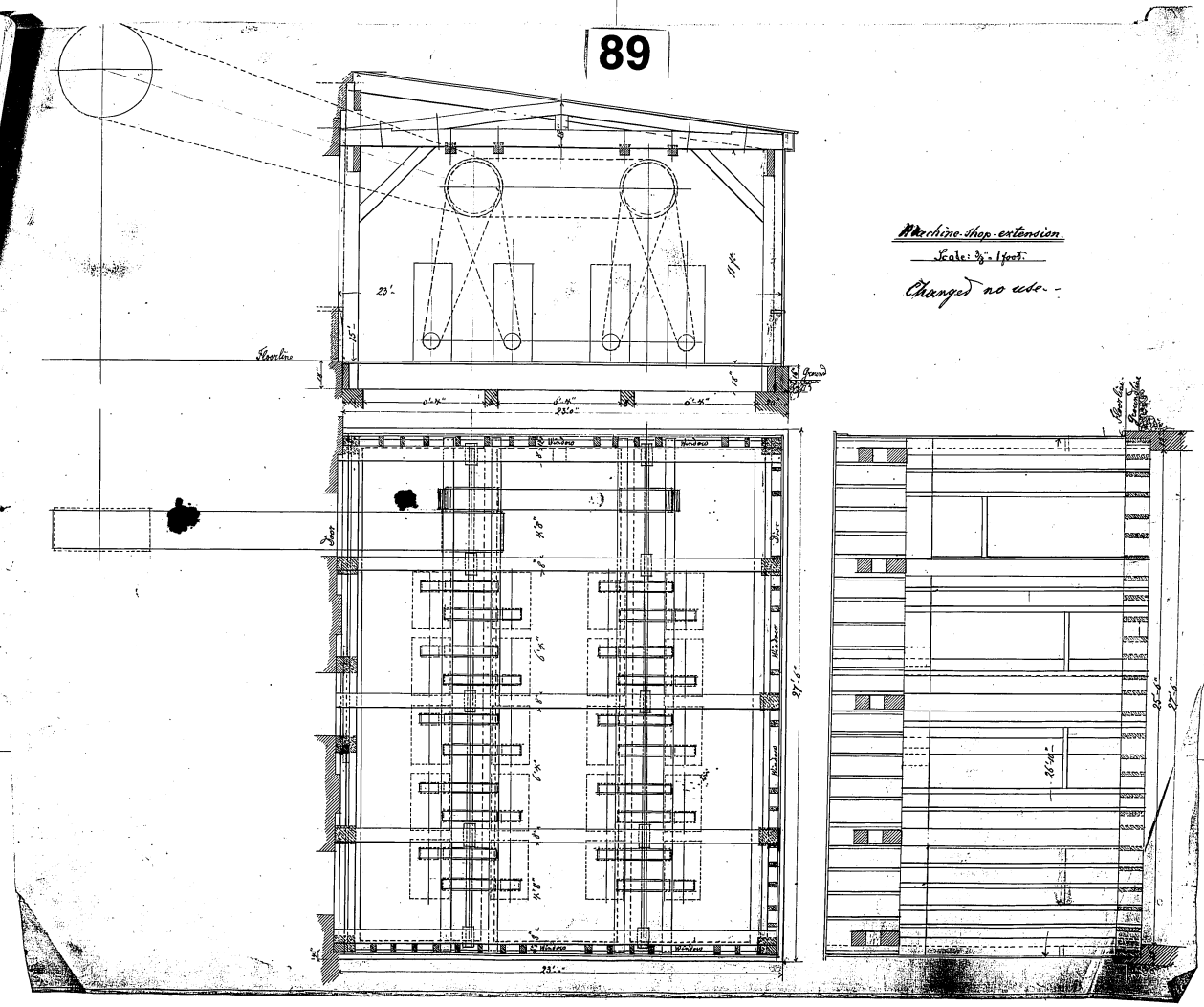



5 inch face
5" face
Bearing metal
118
D.L.B.
J.K.


FILMED IN SECTIONS
1
2

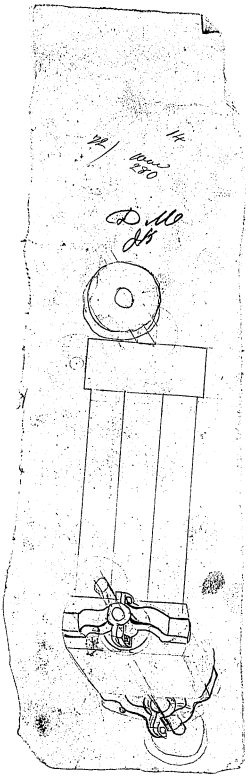

FILMED IN SECTIONS
1
2

89

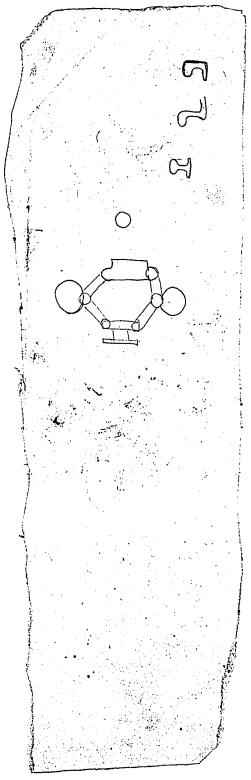

Machine shop extension.
Scale: 3/8" - 1 foot.
Changed no use.
Floor line
Ground
Floor
Floor
Floor

MENLO PARK MACHINE SHOP DRAWINGS, UNDATED

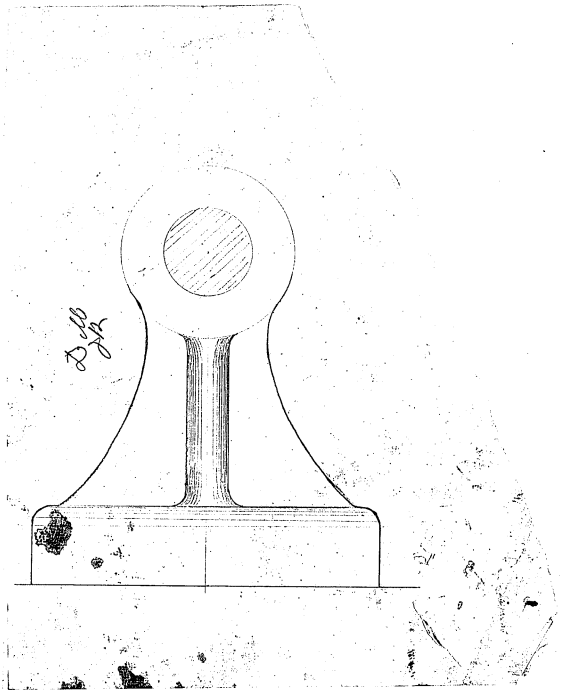
(Reduction Ratio = 14:1)

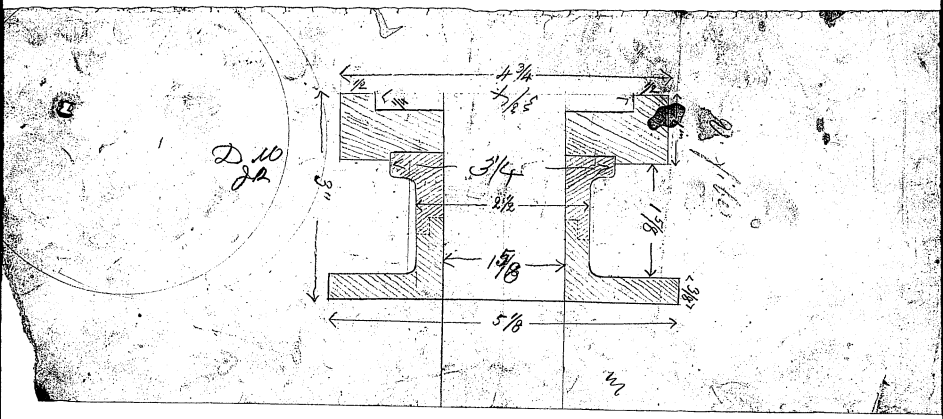


90

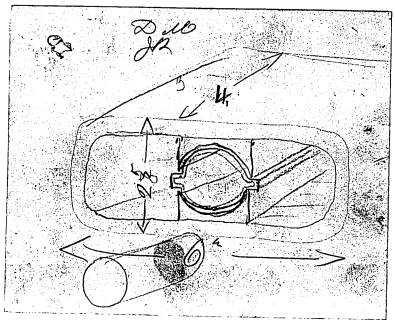


91

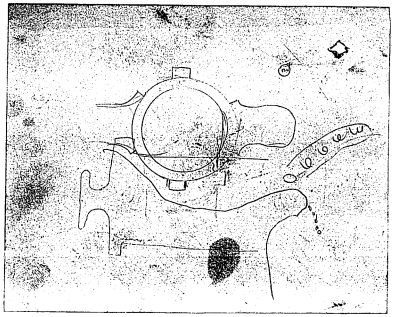



4 3/4
3/4
3 1/4
2 1/2
1 5/8
5 1/8

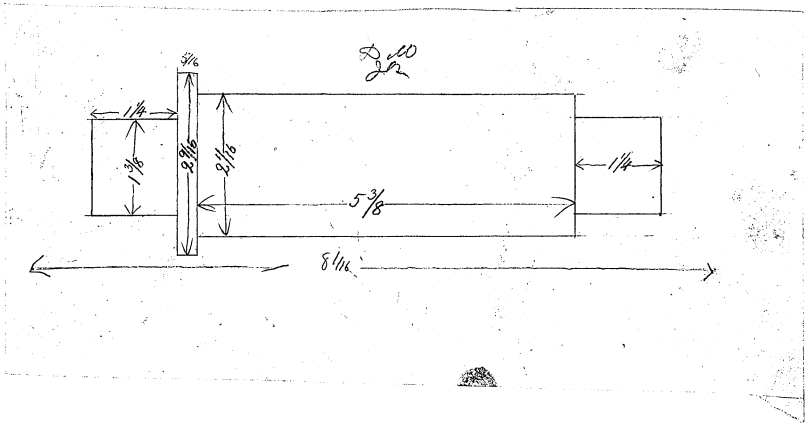
93



93



94



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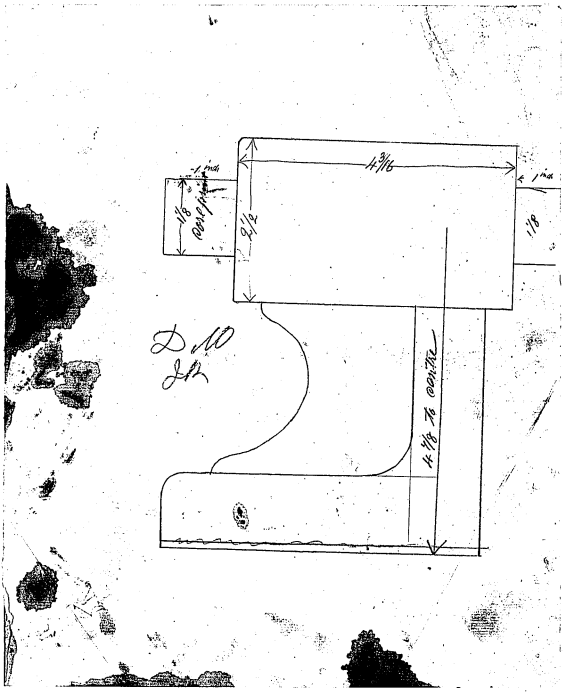

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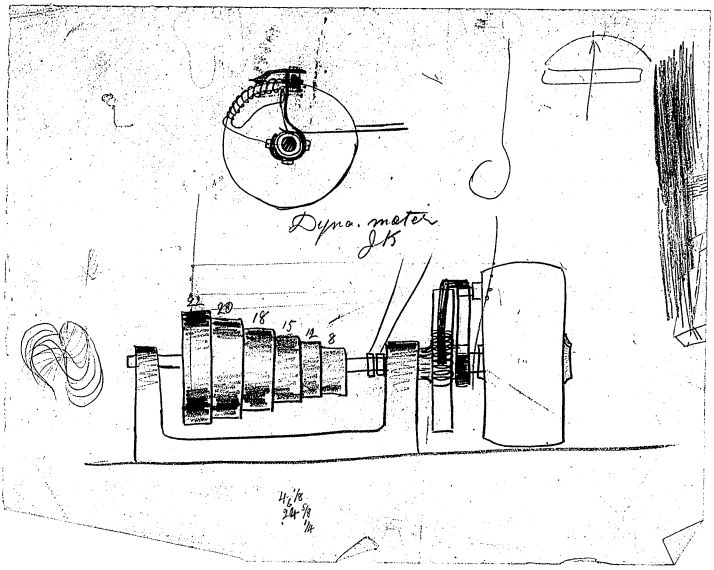
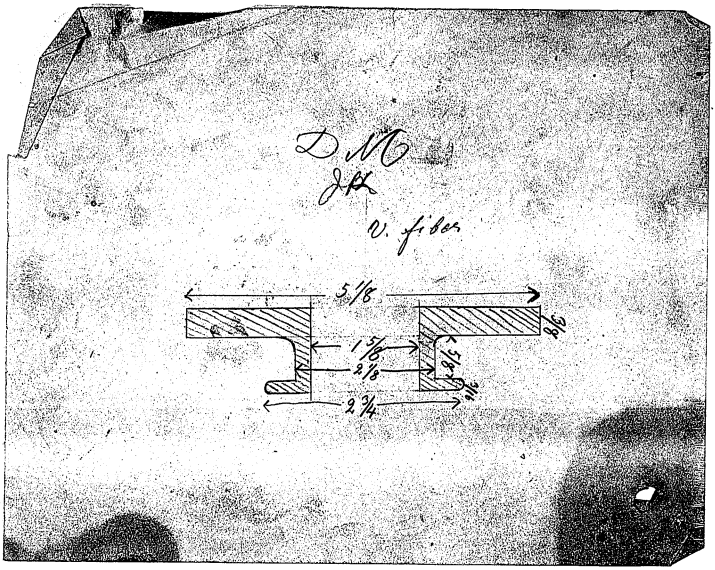
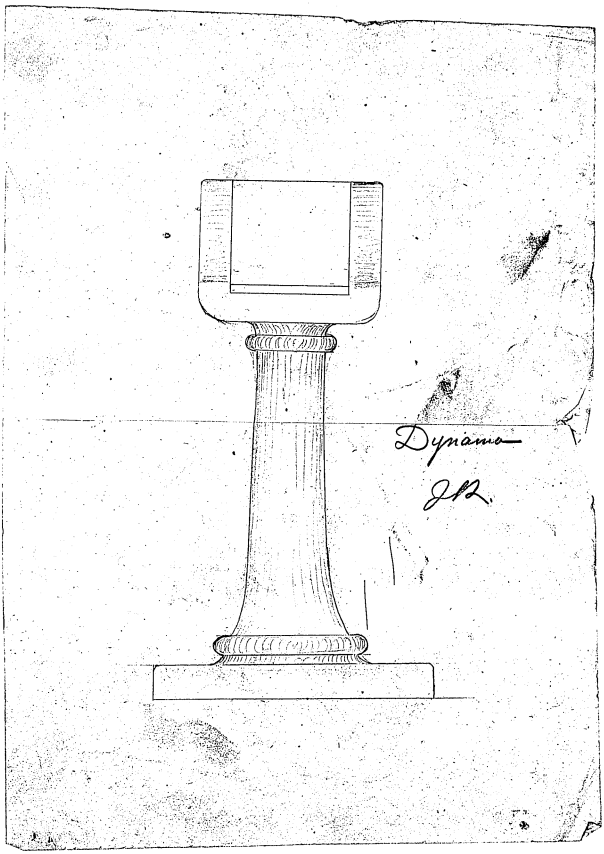
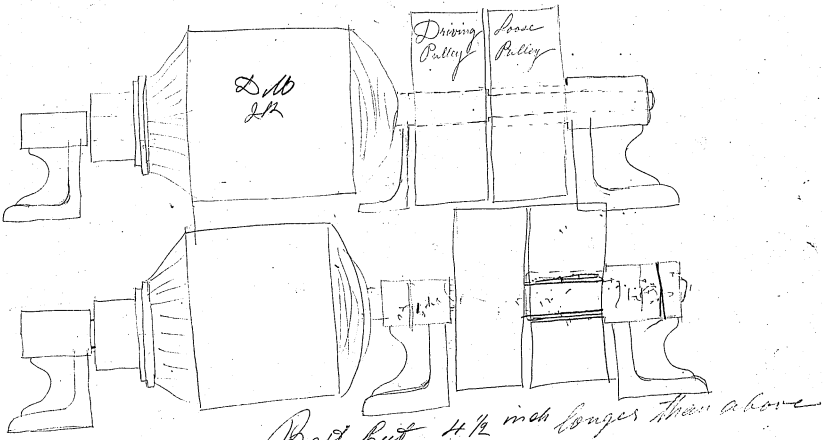
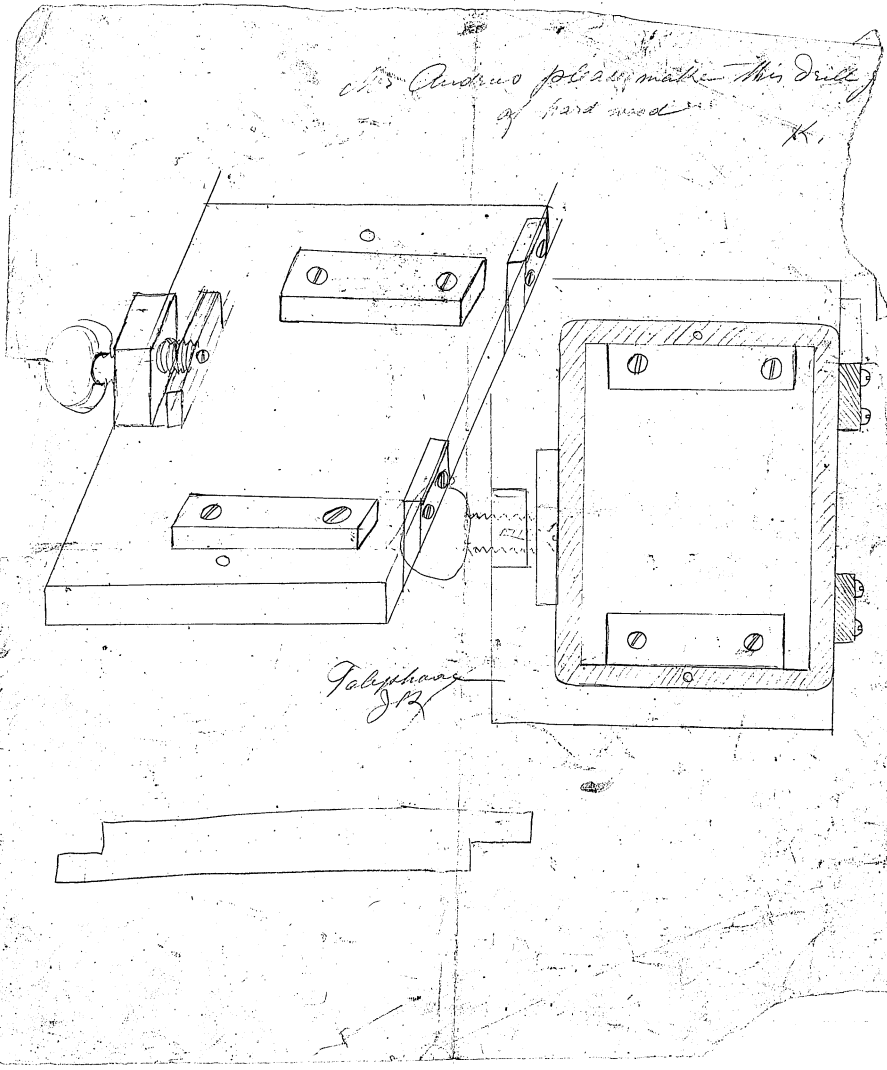
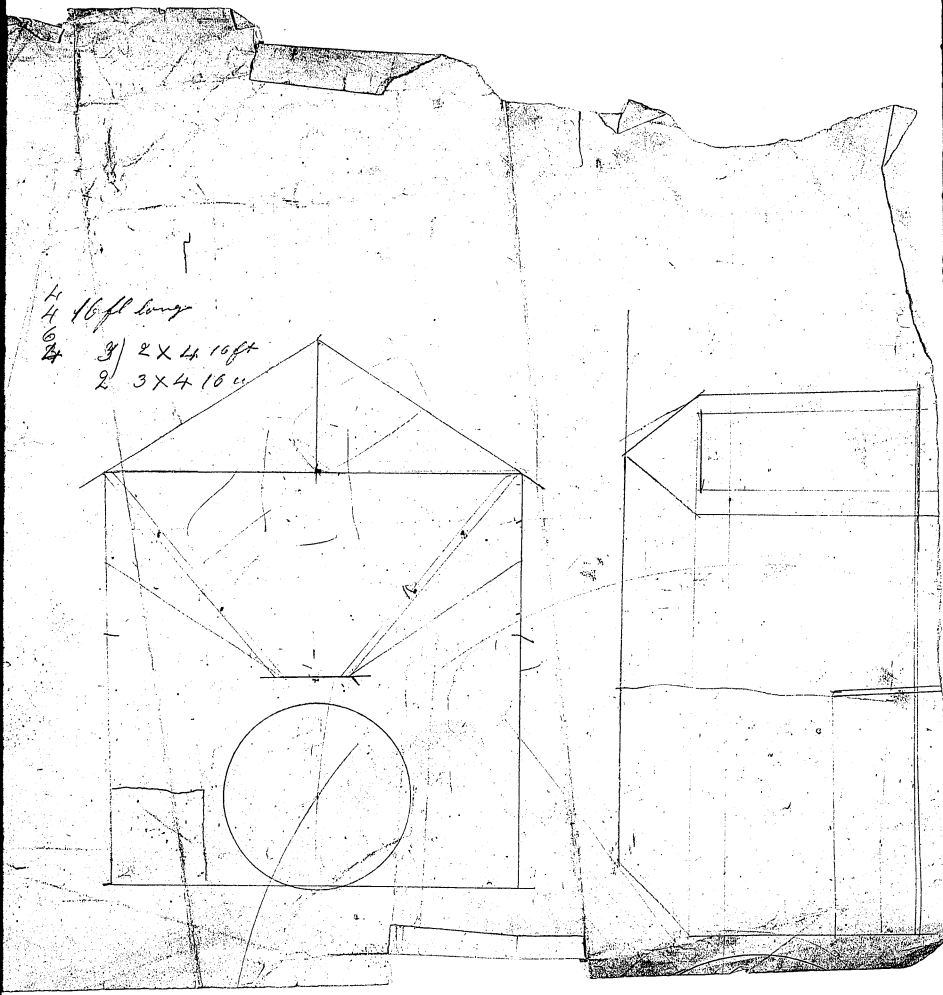



D.M.C.
J.R.
V. fiber
5 1/8
1 5/8
2 1/8
2 3/4
3/8
3/16
3/16


Dynamo—
J.B.


Driving Pulley
Loose Pulley
Best Belt 4½ inch longer than above

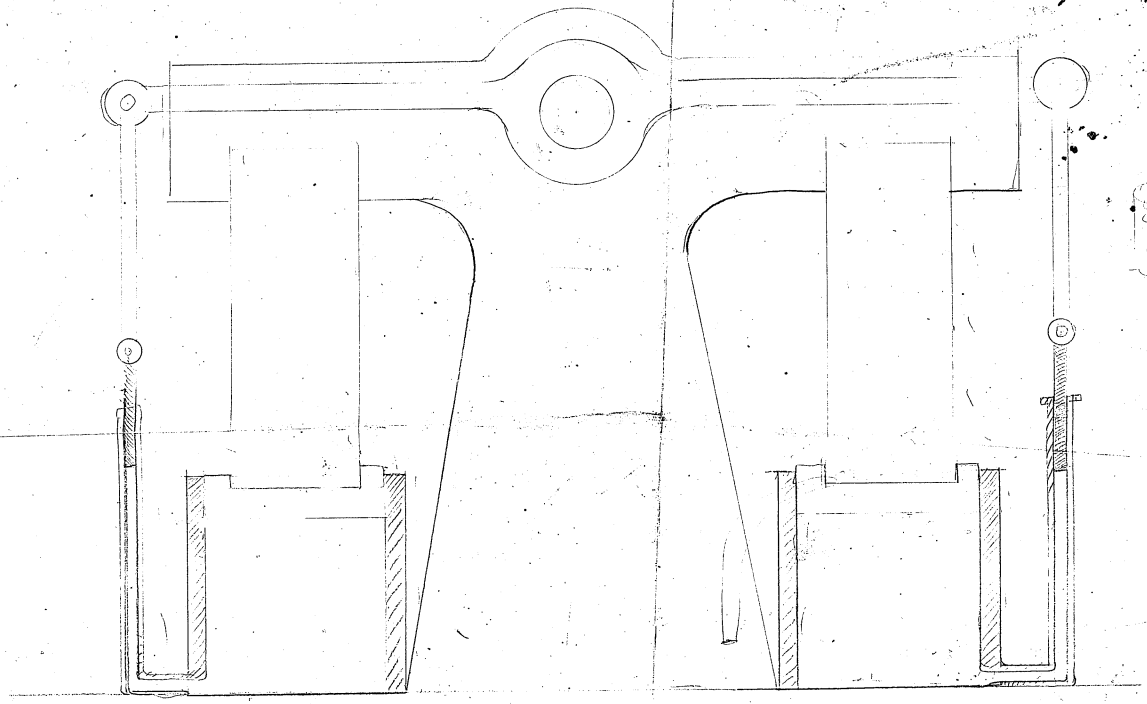

Andrew please make this drill
of hard wood
K.
Telephone
J.B.

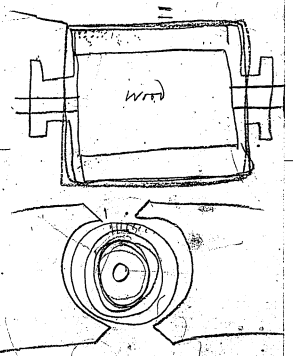

4
4 16ft long
6
4 4 2 X 4 16ft
2 3 X 4 16 "

101

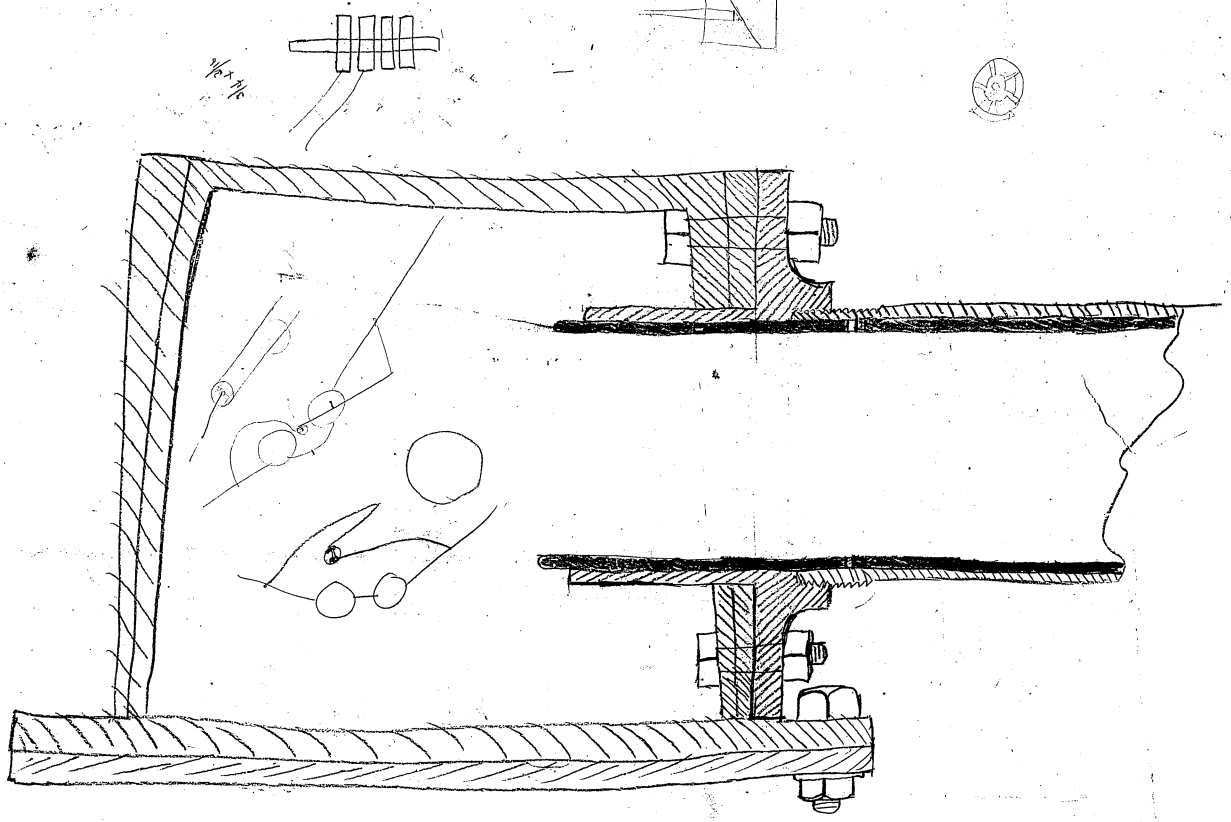
Block Light Dynamometer
Batatola
Uruela

This is the second Dyno. we made the other Drawings will give Data

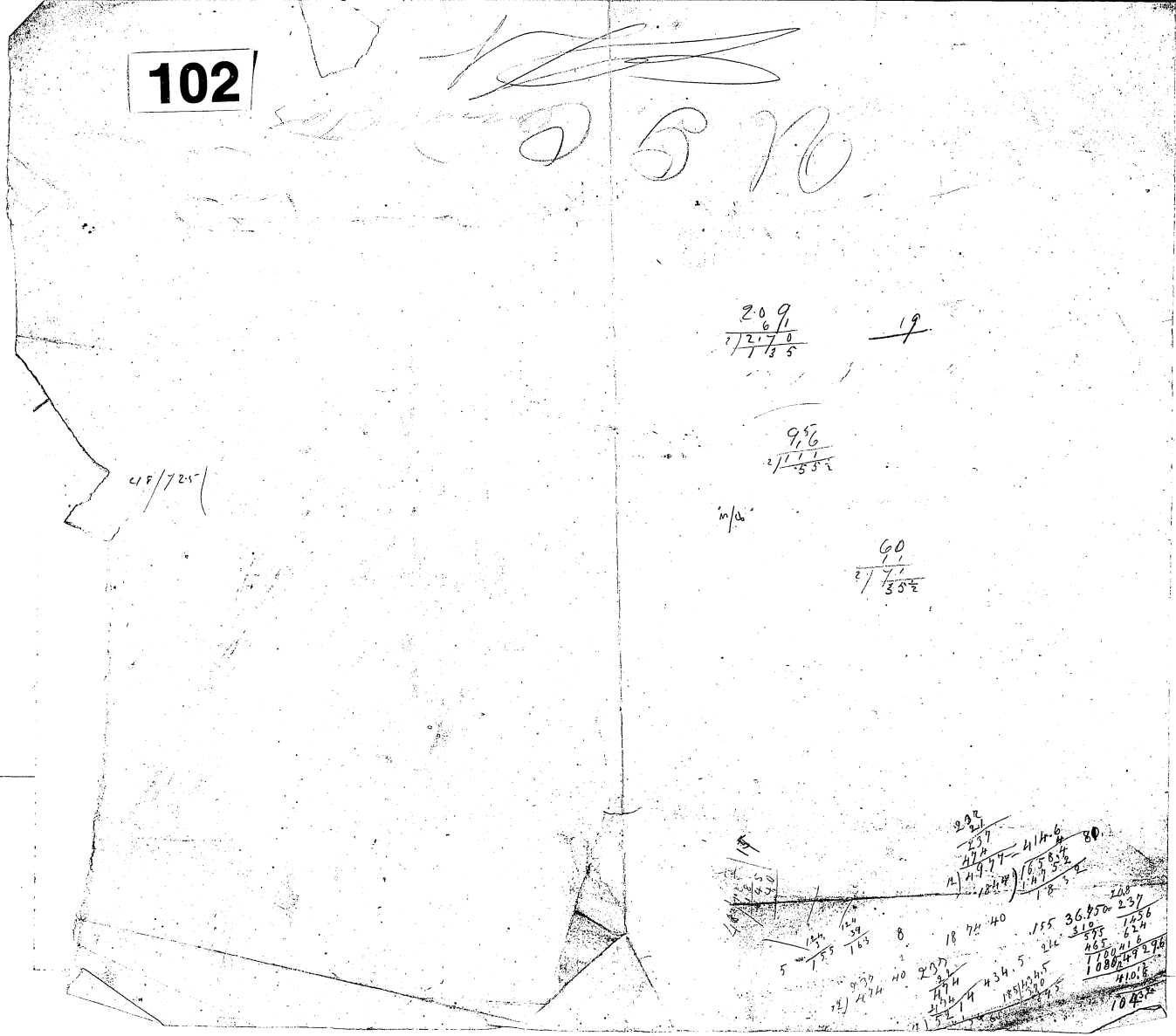




102



102



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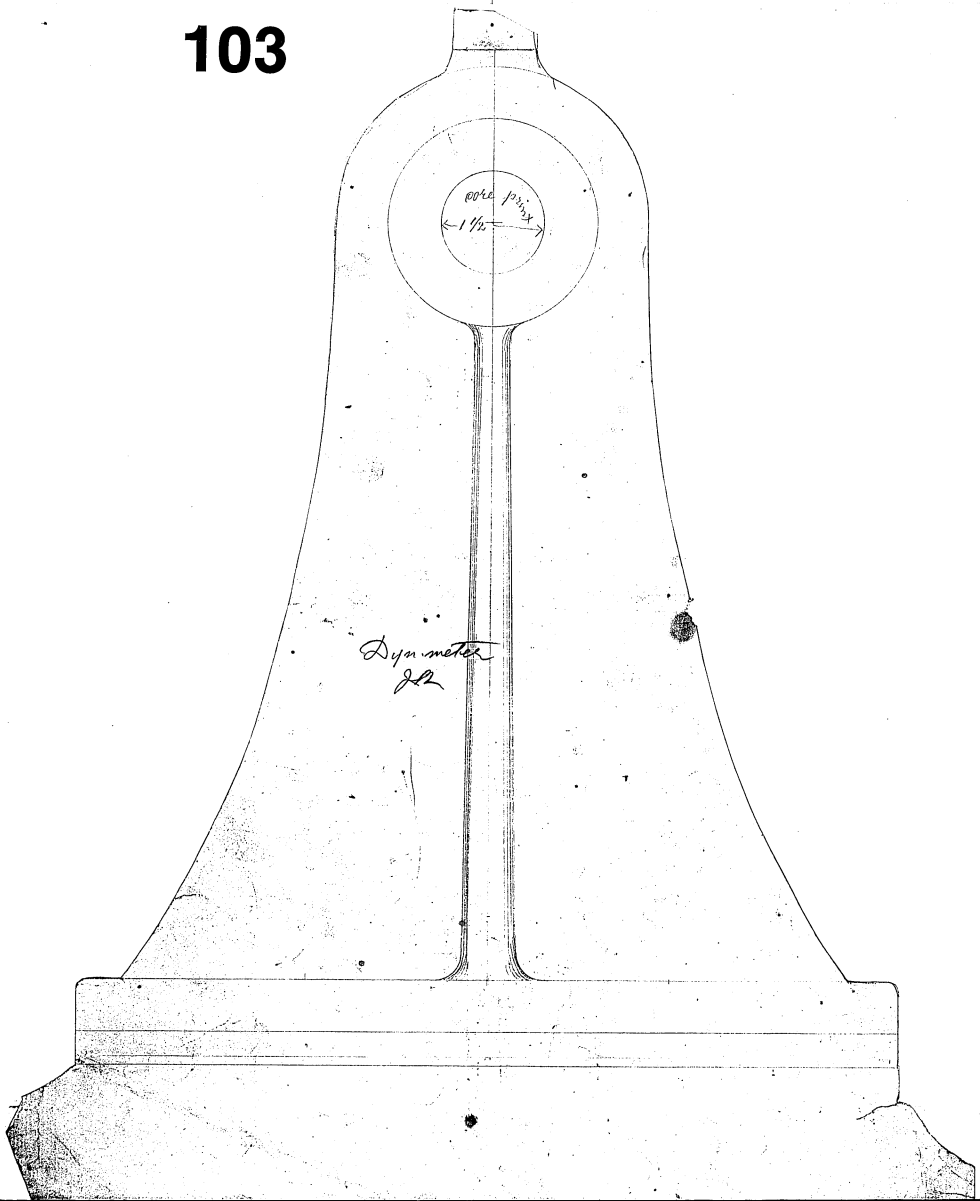
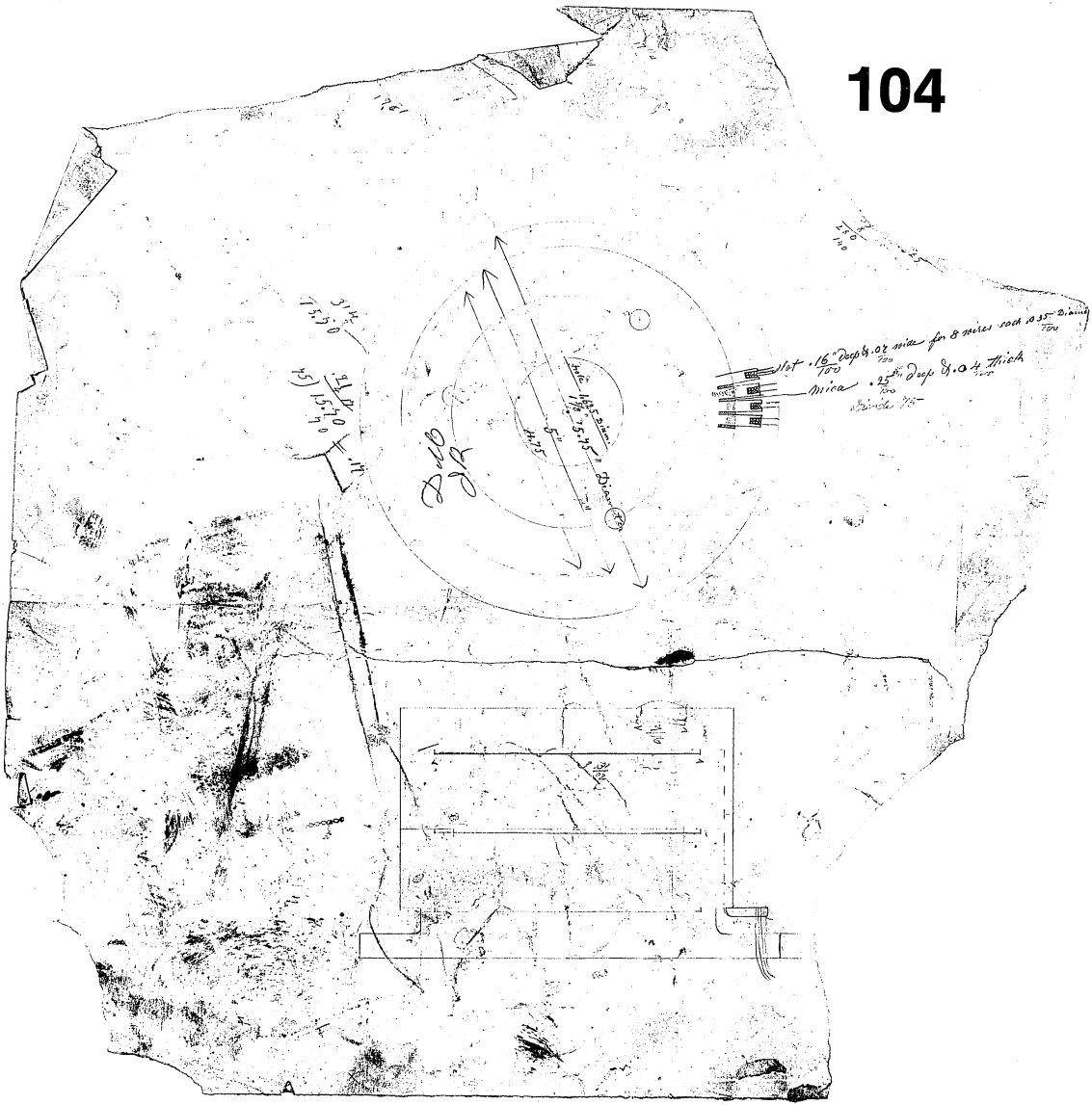
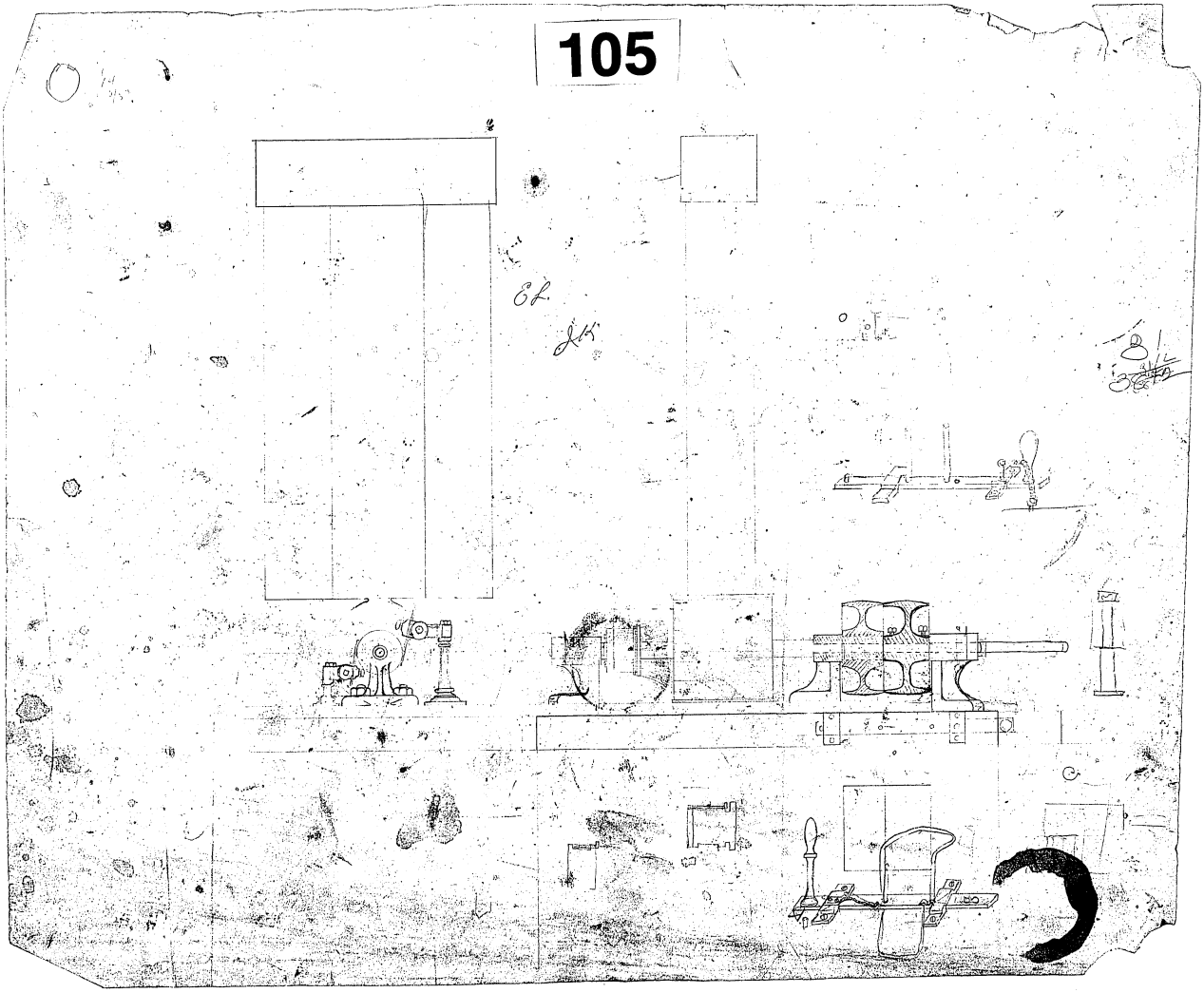
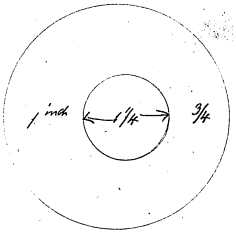
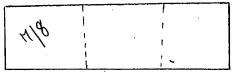


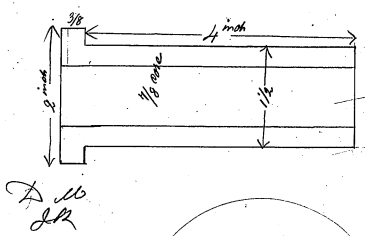

Slot .16" Dep 4.02 mica for 8 wires each .035" Dia
Mica .25" Dep 4.04 thick
Drill
A

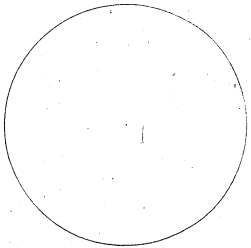
105

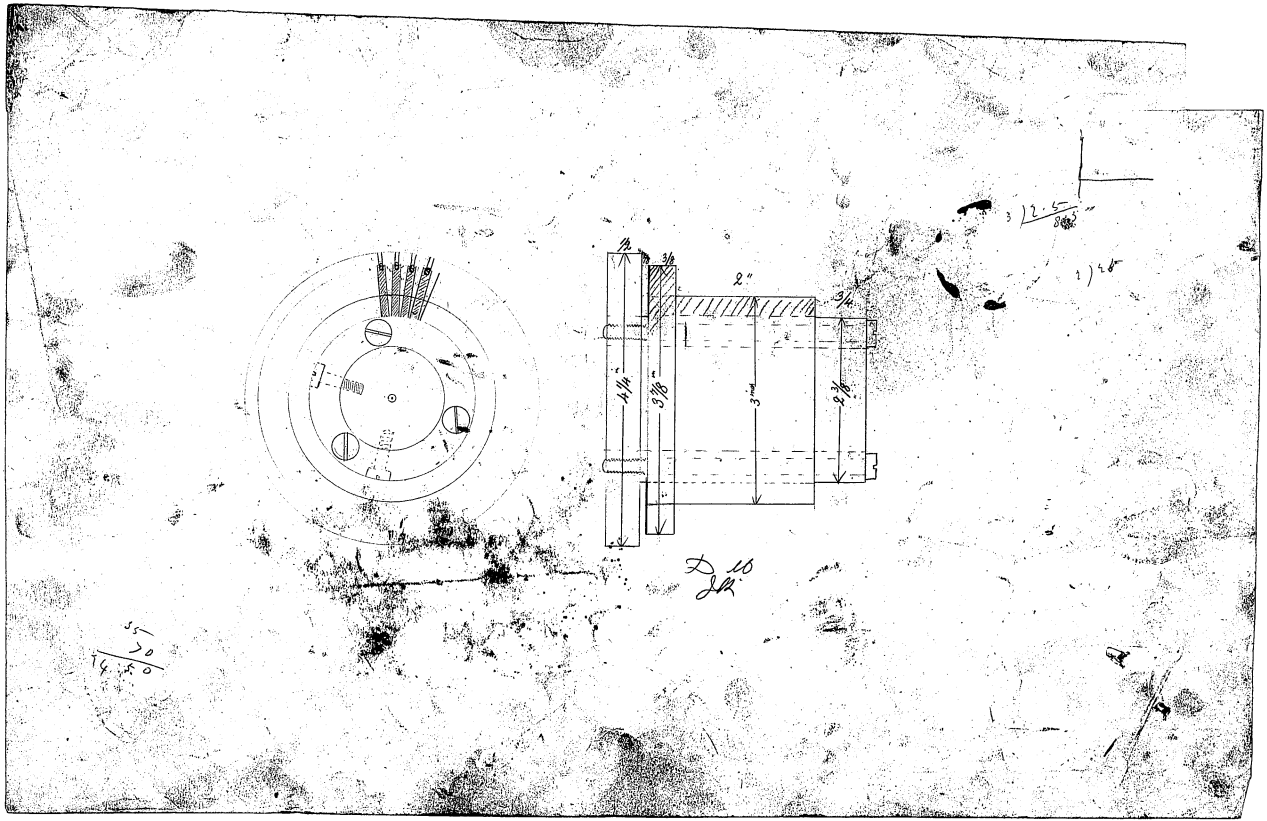



1 inch
1 1/4
3/4

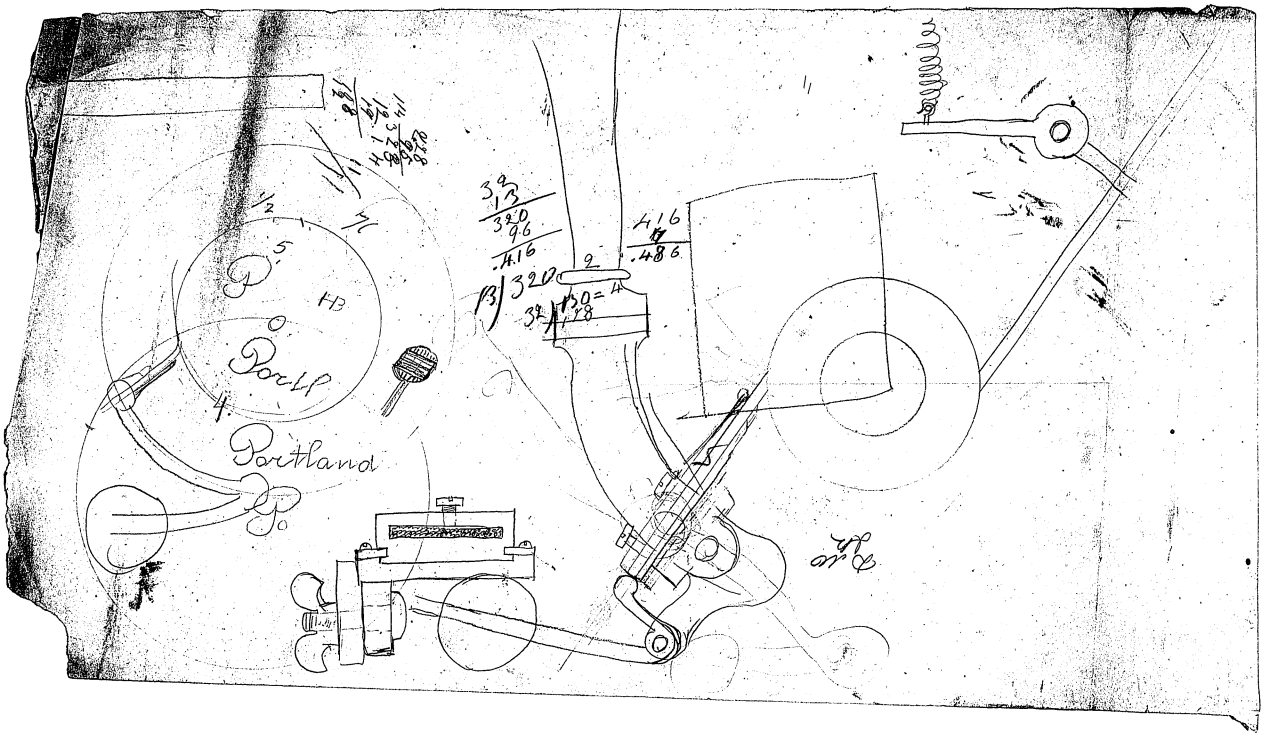

1 1/8

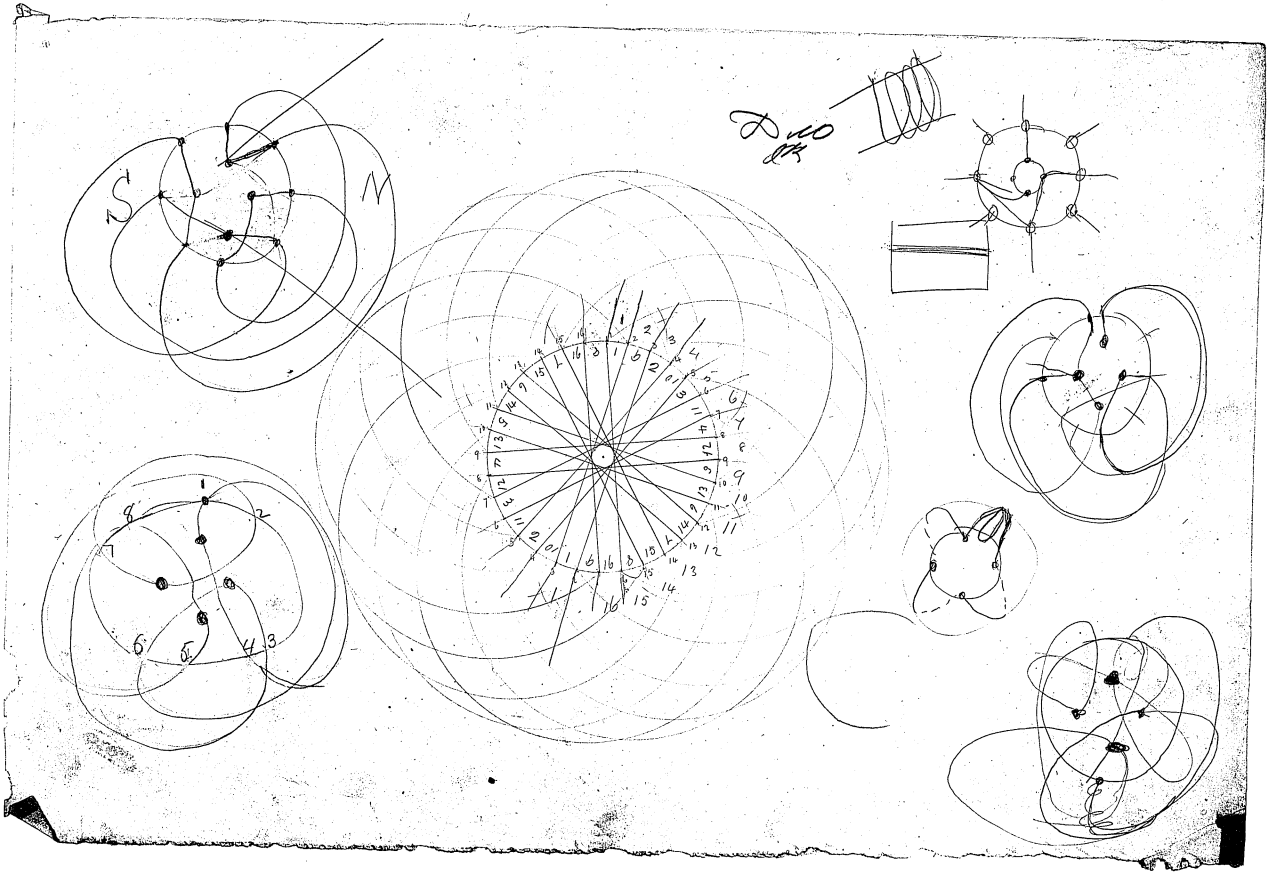

3/8
4 inch
2 inch
1 1/8 inch
1 1/4

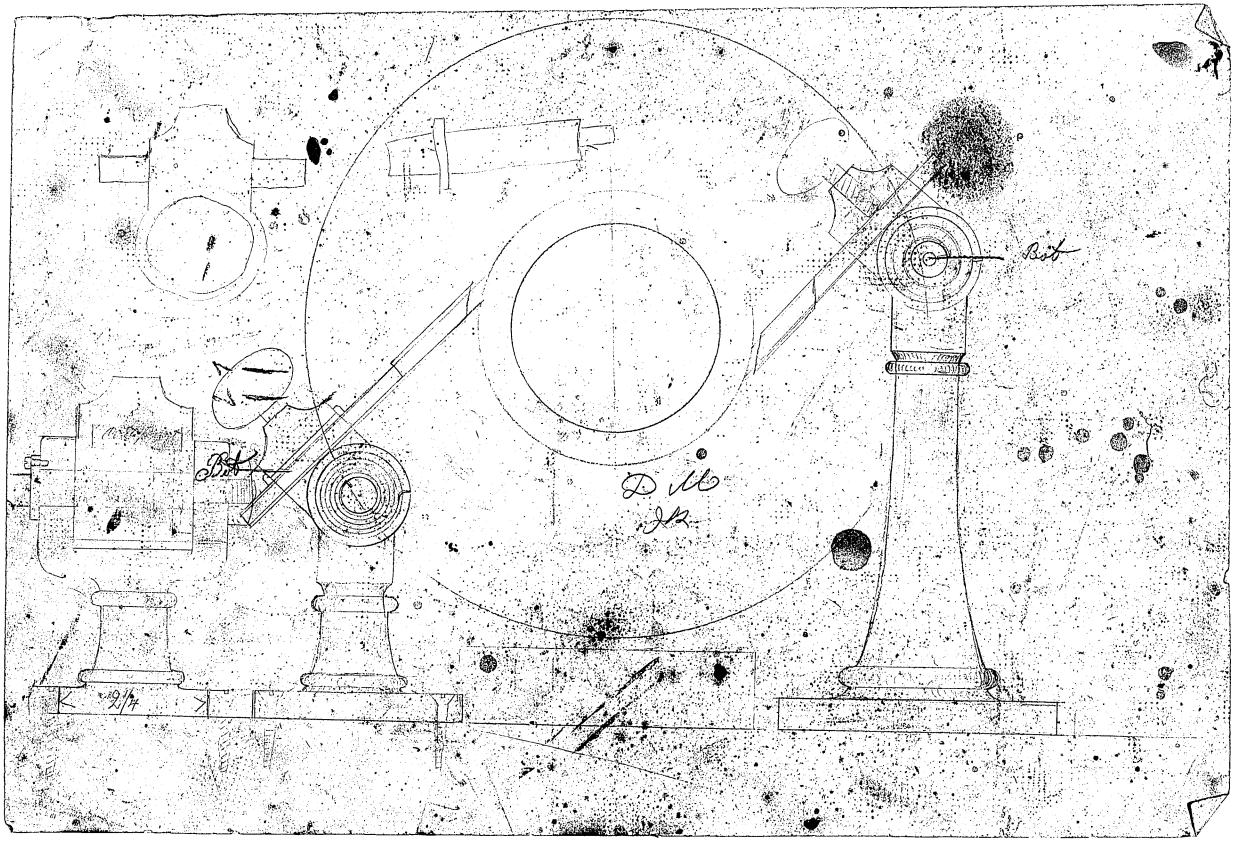


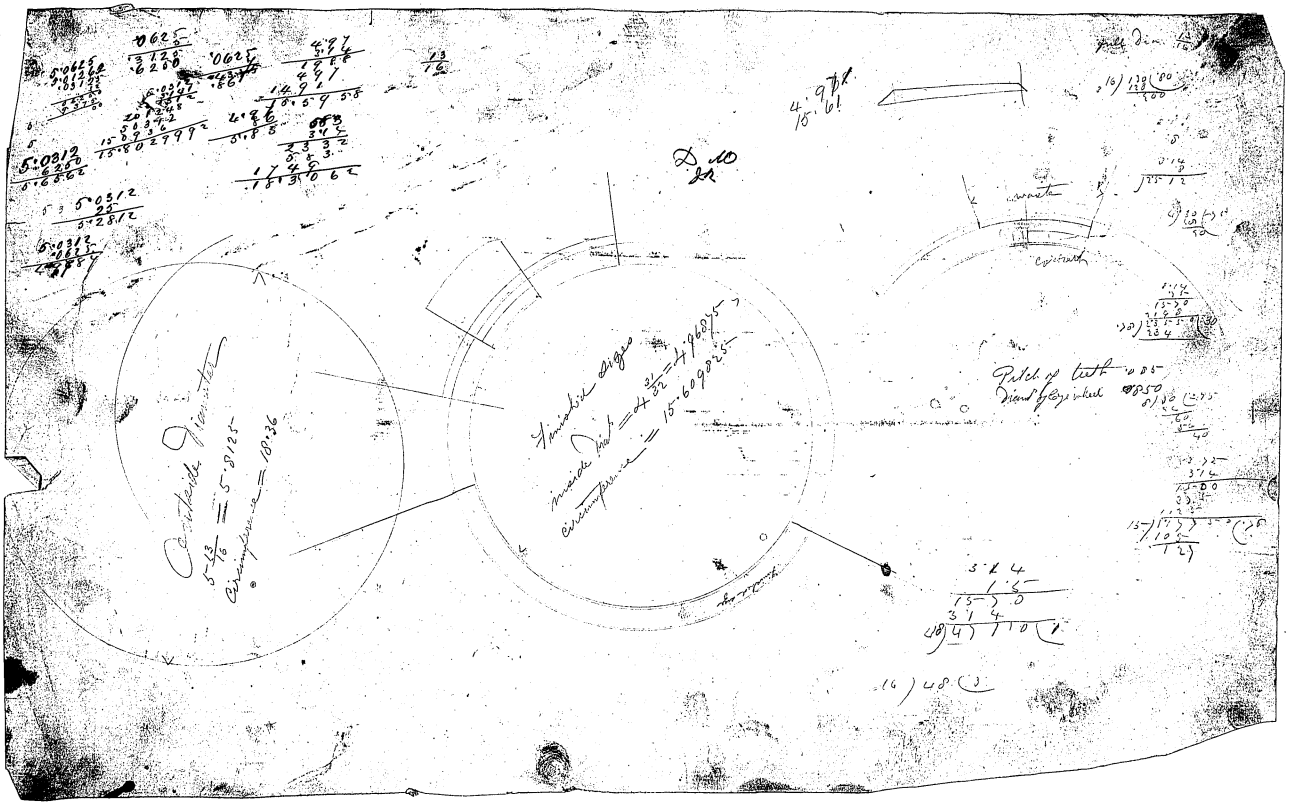

2"
3/4
3/4
4 1/4"
3 3/8"
3"
3/4
3/4

108

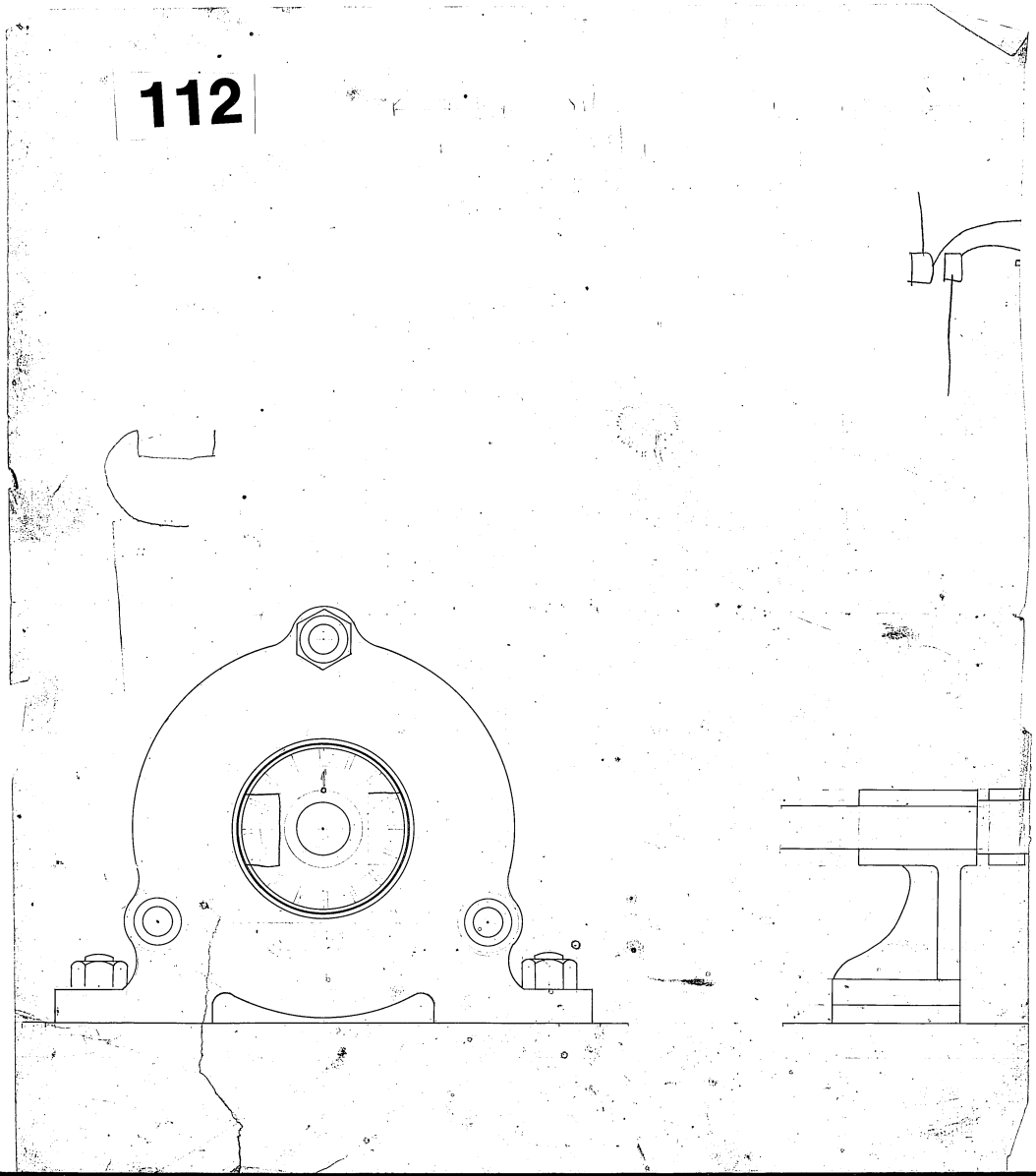


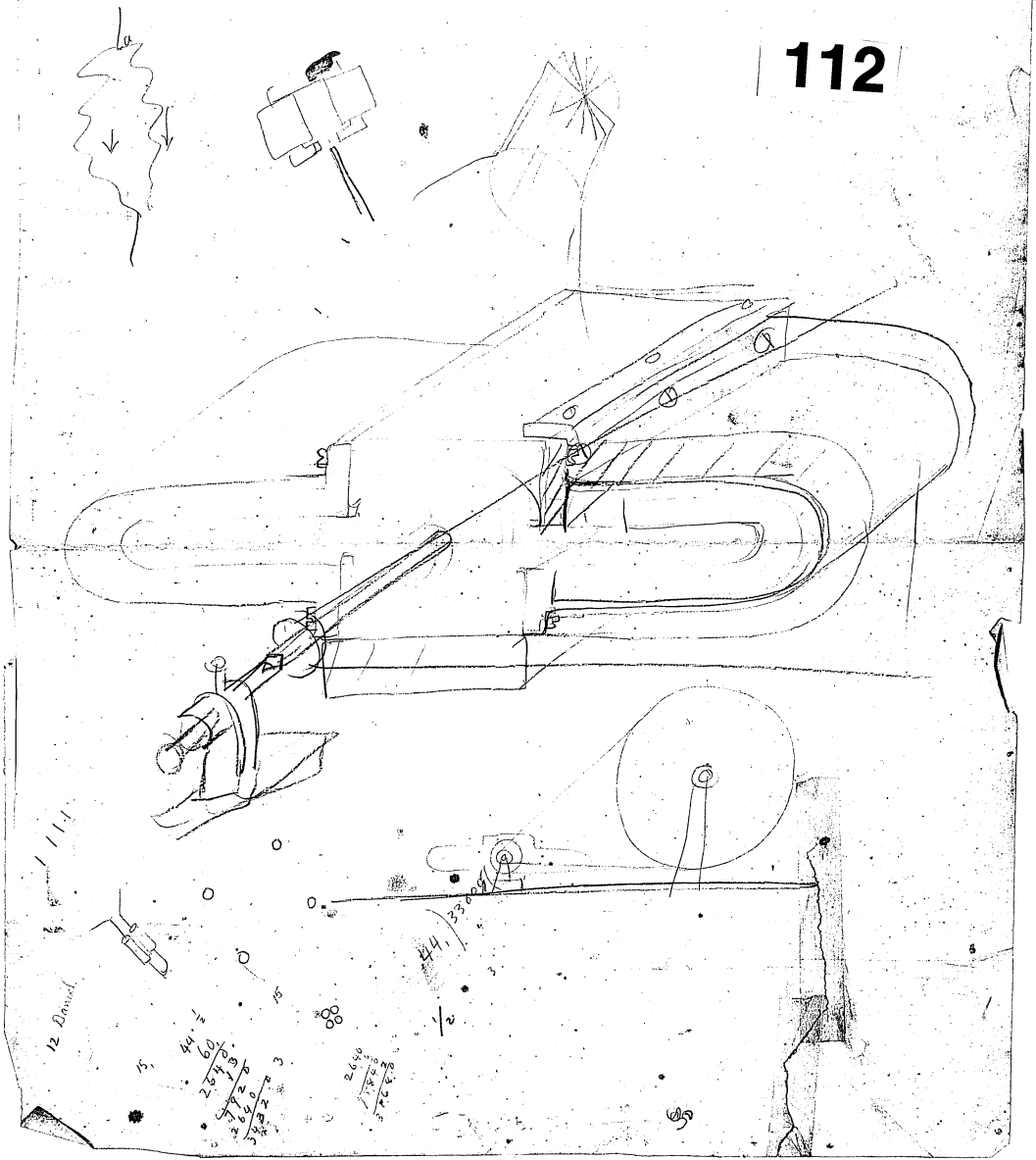

S
N
Duo



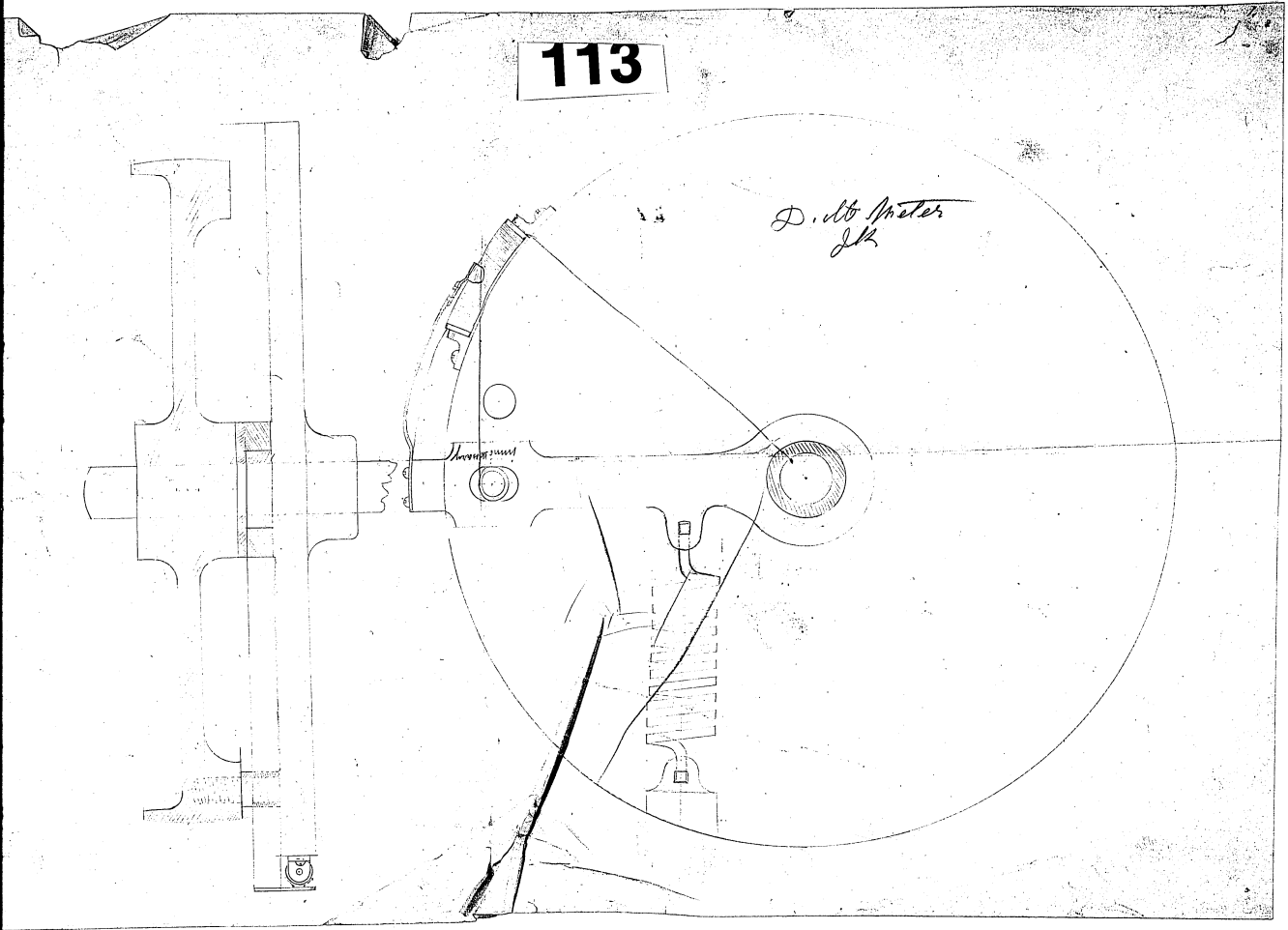

Circumference = 10.36
Inside dia
Inside dia = 4 3/32 = 4.1406 25
Circumference = 15.609 25
Pitch of teeth
Diam of Eye inside

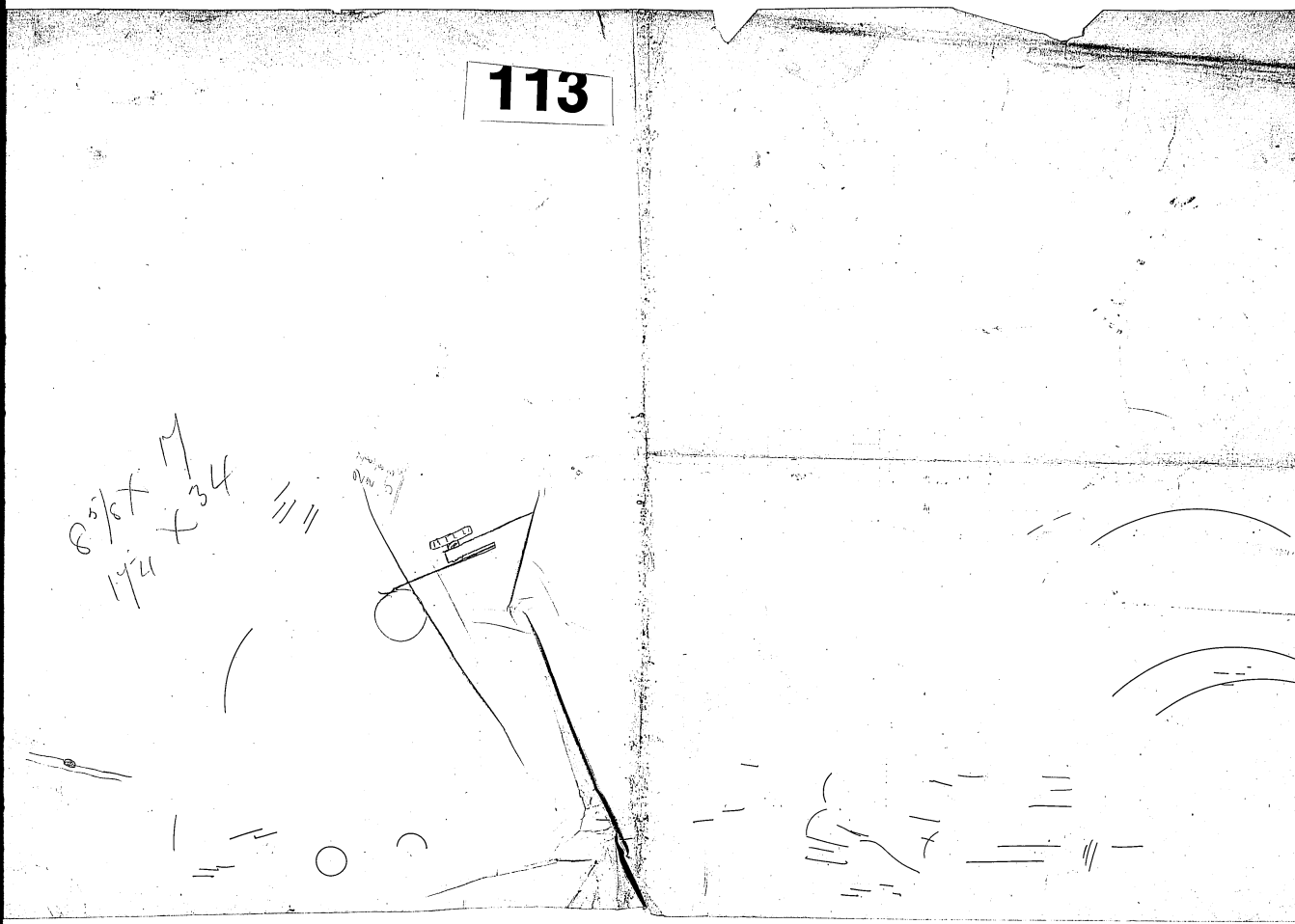
112

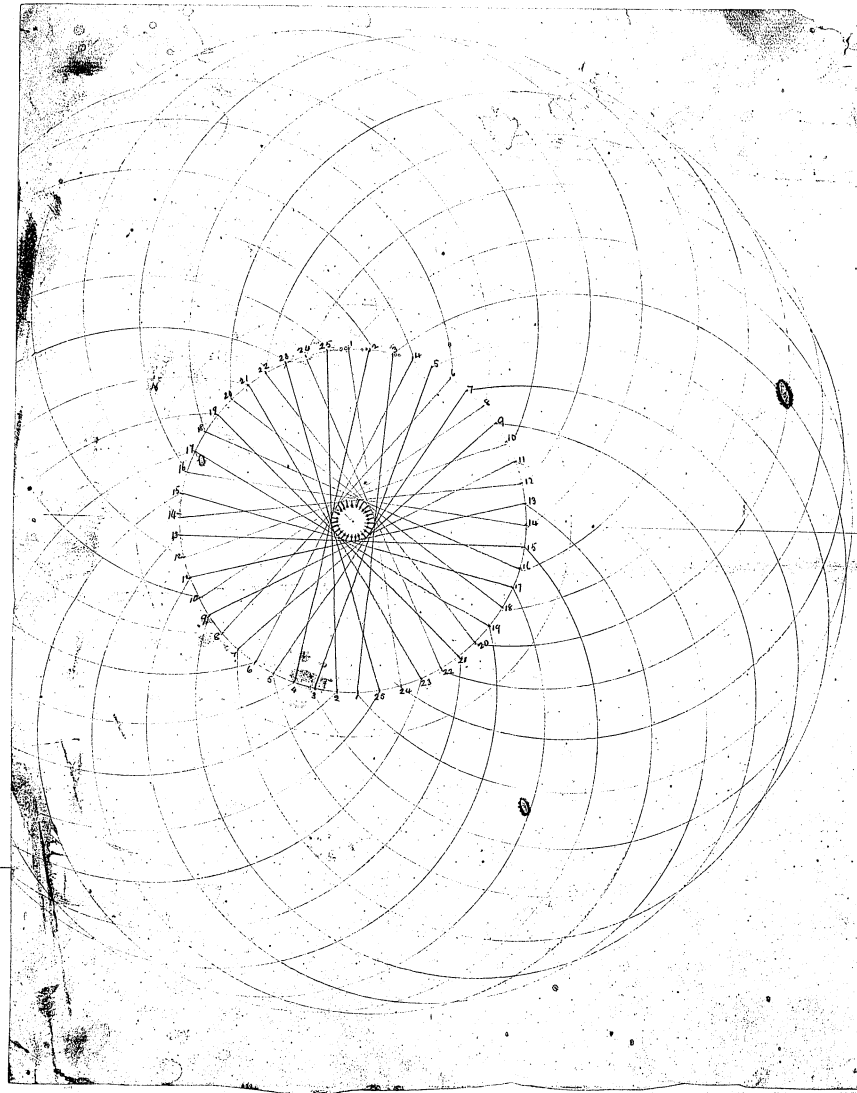


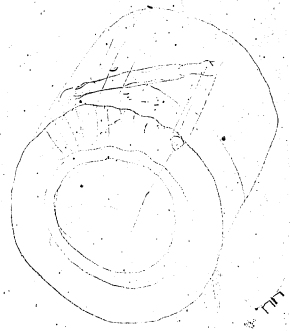


113

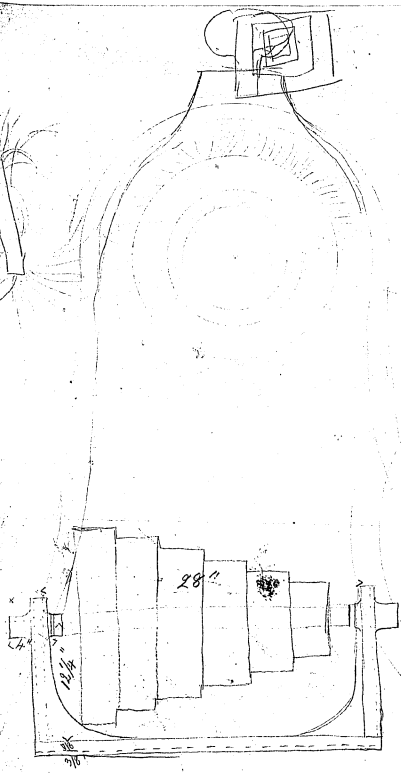


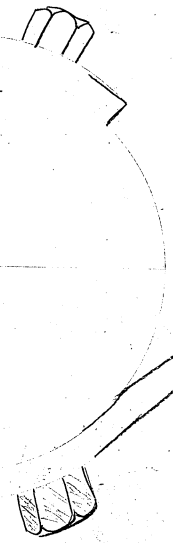

113

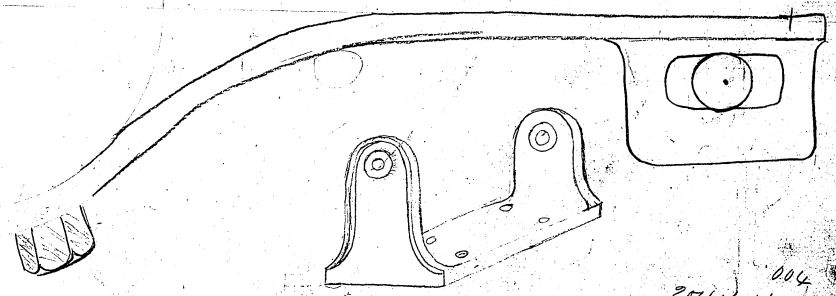




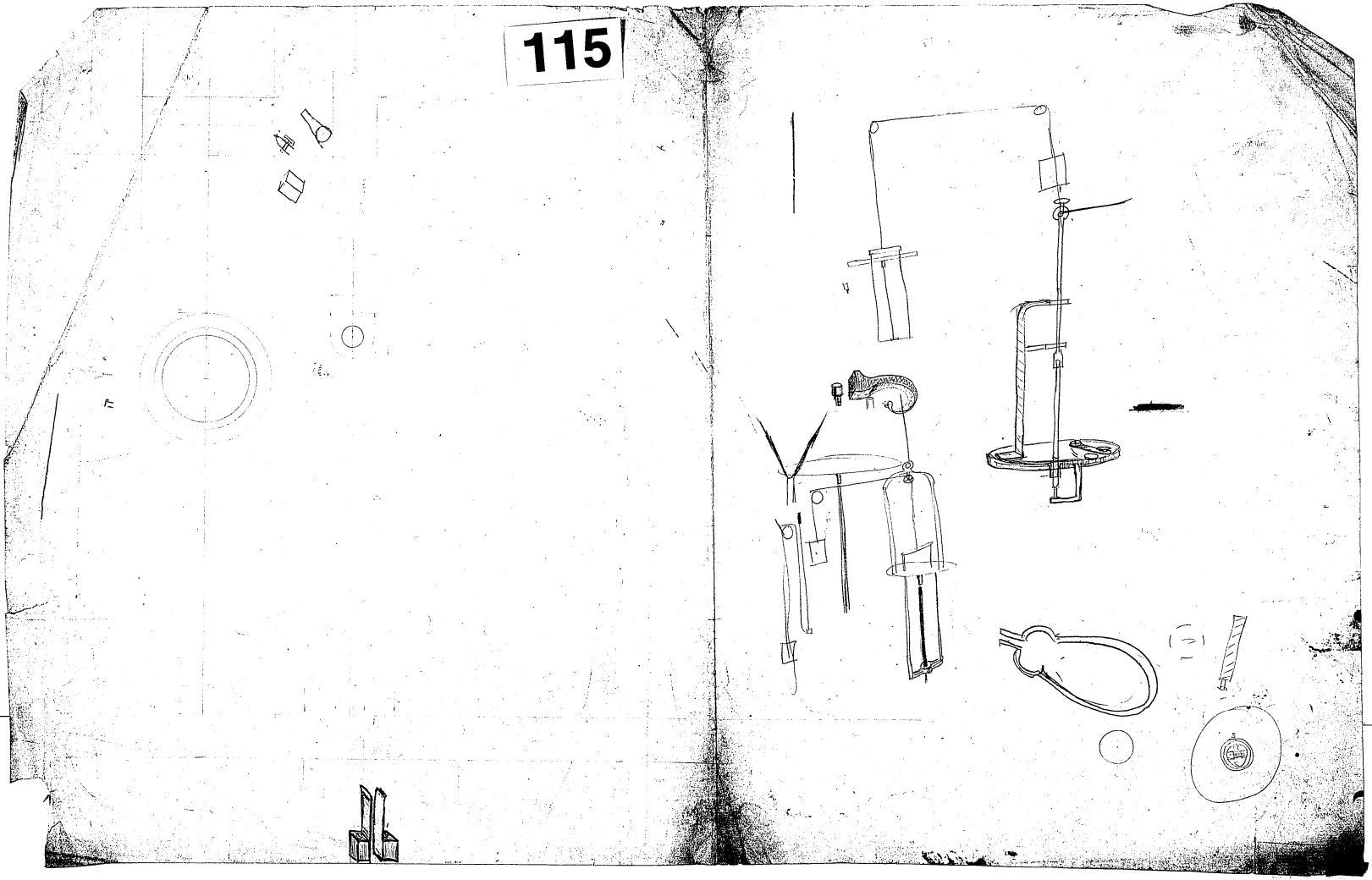
Dynamometer







.004
2066 feet per sec
1555 per sec



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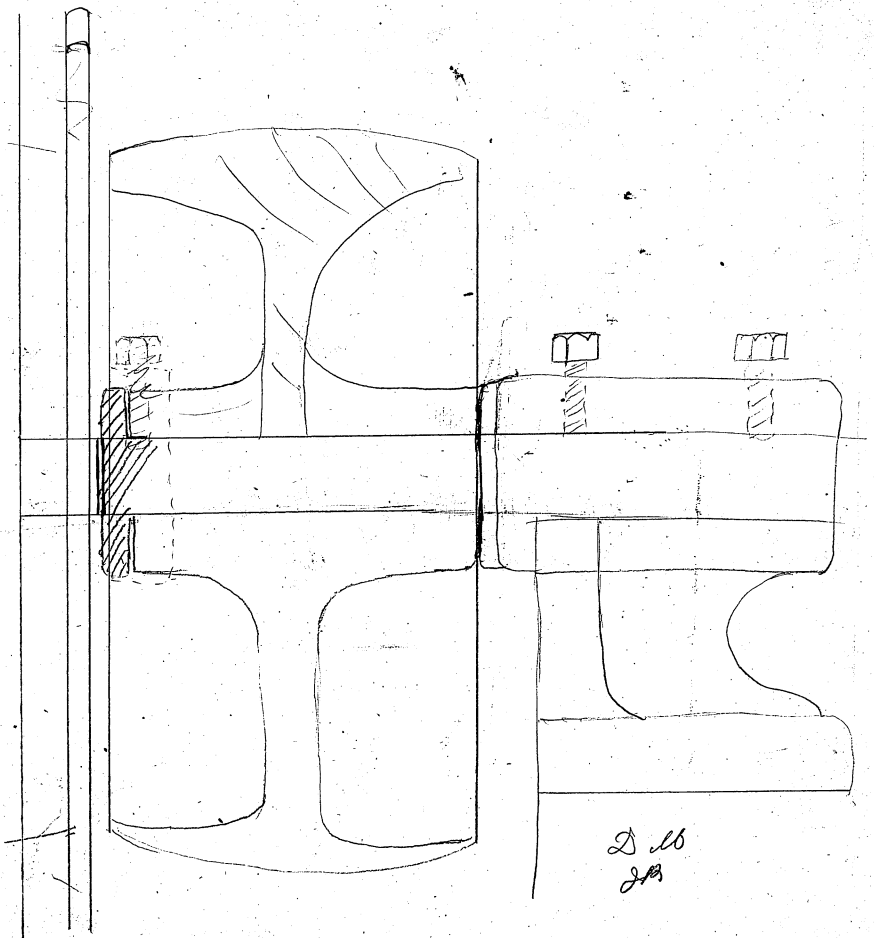

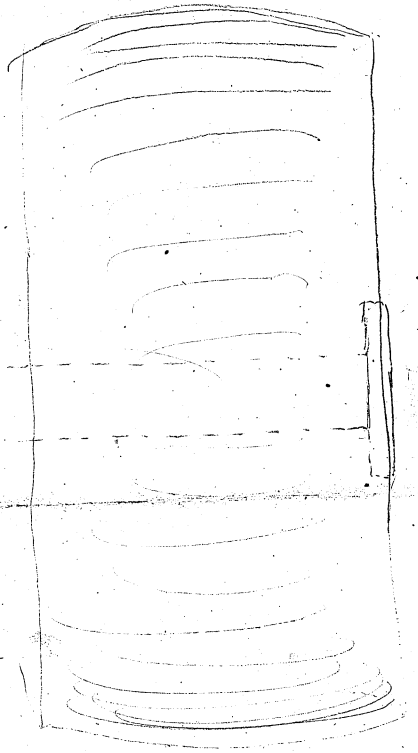

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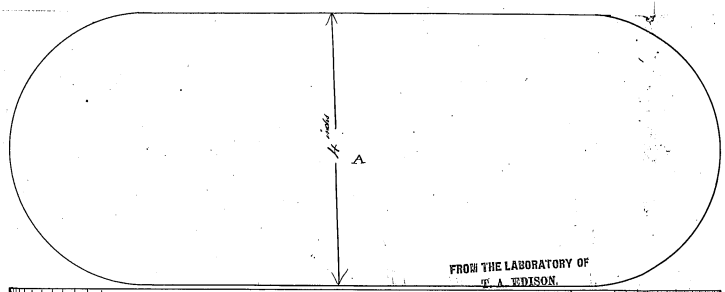
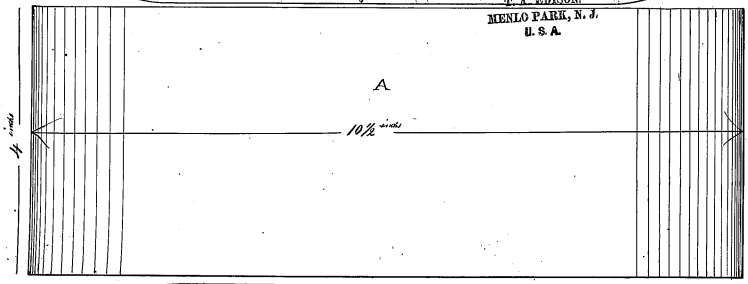
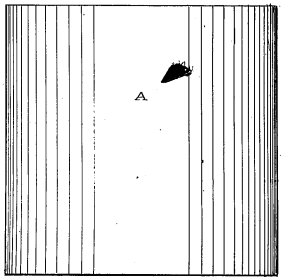
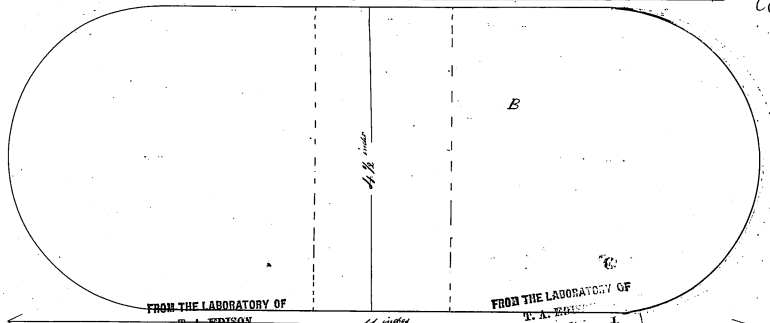


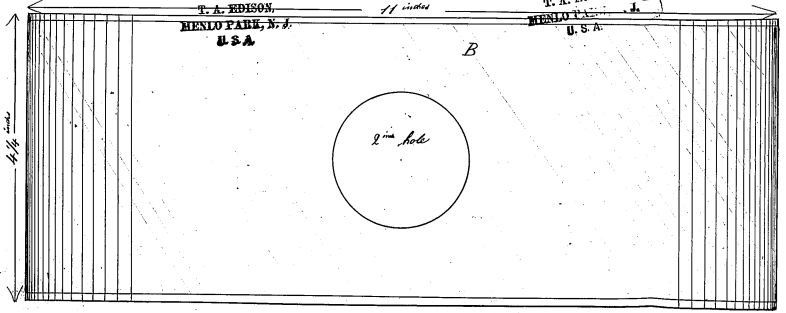
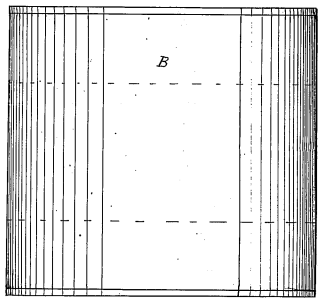
FROM THE LABORATORY OF
T. A. EDISON,
MENLO PARK, N. J.
U. S. A.



1 of each B has a (2) two inch hole through





FROM THE LABORATORY OF
T. A. ~~EDISON,~~
~~MENLO PARK, N. J.~~
~~U. S. A.~~

FROM THE LABORATORY OF
T. A. EDI...
MENLO P...
U. S. A.